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ZOÖLOGICAL SERIES  
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FIELD COLUMBIAN MUSEUM

PUBLICATION No. 115

ZOOLOGICAL SERIES

VOL. VIII

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A CATALOGUE  
OF THE  
COLLECTION OF MAMMALS  
IN THE  
FIELD COLUMBIAN MUSEUM

BY

DANIEL GIRAUD ELLIOT, SC. D., F. R. S. E., &c.  
Honorary and Supervisory Curator of the Department.



CHICAGO, U. S. A.  
1907.





## PREFACE.

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The present Catalogue purports to give the names and the number of specimens of Mammals in the Field Columbian Museum up to the date of issue. When the Author took charge of the Department of Zoölogy, as constituted in this Institution, the collection of Mammals was composed of a limited number of mounted examples furnished by the Ward Natural Science Establishment of Rochester, New York, many of them not freshly prepared, and nearly all with unreliable data of locality, causing them to be practically of little scientific value specifically, but useful to a certain degree as representatives of genera. There were no mammal skins, and consequently a study collection did not exist. At the present time a fair start has been made, and about fifteen thousand specimens are now in the Museum collection, the major portion, as is proper, being unmounted and reserved for scientific study and comparison. Knowing that the value of a museum's material depends greatly upon how much is available for scientific research, it has been the Author's policy to restrict the number of mounted specimens to as few as would give a proper conception as possible to the visitor, of the Order, Family, and usually the species, represented. To go beyond this would be but the production of useless repetitions, wearying to the observer and profitable to no one. Naturally, when beginning the formation of a collection, the material nearest at hand was sought, and consequently the mammalian fauna of the United States occupies the largest portion of the Catalogue. The Author has not, however, been unmindful of exotic forms, and as many foreign species have been procured as possible, rather special attention having been given to Wild Horses and African Antelopes,—important and beautiful creatures advancing rapidly toward extinction. Although purchases have been liberally made, yet by such means the making of a collection would be necessarily slow and unsatisfactory, for the main dependence for achieving success and a collection at the same time is, of course, work in the field. The expedition to Africa under the Author's leadership produced large results, and numbers of valuable specimens were secured, the majority being various species of Antelopes. By keeping collectors constantly at work, mostly thus far in North America, it has been possible to bring together a sufficiently large number of specimens to constitute a nucleus for the grand collection it is hoped the Museum may eventually possess, and cause it to take



its position in the front rank of the great world-embracing Institutions devoted to the scientific study of Natural History, and whose influence is felt and recognized throughout the earth. In the exhibition of mammals much attention, and, it may be added space also, has been given to groups, and specimens of single species of different ages and sexes have been brought together and placed in a miniature landscape of the country in which they once dwelt. Their environment was thus the natural one. When practicable this is the most satisfactory method of exhibiting specimens; but it is limited, for no matter how large the museum building may be, only a very small portion of a collection could be so arranged, and if continued to any excess, other and equally important exhibits could not be shown. Mounting specimens in groups, therefore, must from sheer necessity be always limited.

Every example in the Museum that has passed through the Author's hands is contained in this Catalogue, together with all the information possessed regarding it; commencing with the sex, whether collected, purchased, presented, or exchanged, followed by the locality in which it was taken, the person or institution from which it was procured, ending with the name of the collector. The signs and abbreviations used are: ♂, male; ♀, female; Coll., collected; P., purchased; Pres., presented; and Exch., exchanged. The arrangement is that of the Check-List of Mammals of the North American Continent and West Indies, as far as that work goes, viz.: for the mammals of the North American fauna, the exotic species being relegated to their various positions in accordance with the system of classification adopted by the Author. One species is described, a bat, *Uroderma validum*, on page 538, the discovery that the specimens represented a new form having been made too late for the Author to avail himself of any of the usual channels of publication and include it at the same time in the present work.

In conclusion, it gives me much pleasure to acknowledge my indebtedness to Mr. W. J. Gerhard, Assistant Curator of Entomology, for his valuable aid in reading the proofs as the work passed through the press, and also for constructing the index, in which task considerable help was rendered by my assistant, Mr. E. B. Chope.

D. G. E.

December, 1906.

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# CLASS MAMMALIA.

## SUBCLASS I. PROTOTHERIA.

### Order I. **Monotremata. Monotremes.**

#### Family I. **Ornithorhynchidæ.**

##### Genus I. **Ornithorhynchus. Duck-bill.**

**Ornithorhynchus** Blumenb., Götting. Gelehr. Anz., I, Apr. 19, 1800, p. 609. Type *Ornithorhynchus paradoxus* Blumenbach = *Platypus anatinus* Shaw.

*Platypus* Shaw, Nat. Misc., x, 1799, text to pl. 385. (nec Herbst, 1793. Coleopt.)

#### 1. **Ornithorhynchus anatinus** (Shaw).

*Platypus anatinus* Shaw, Nat. Misc., x, 1799, pls. 385, 386. *Id.* Gen. Zoöl., I, 1800, Pt. I, p. 229, pls. 66, 67.

*Ornithorhynchus paradoxus* Blumenb., Voigt's Mag. Naturk., II, 1800, p. 205

*Dermipus anatinus* Wiedem., Archiv f. Zool., Pt. I, 1800, p. 180, pl. III.

*Ornithorhynchus fuscus* Péron & Lesueur, Voy. Terres Austr., 1807, pl. xxxiv.

*Ornithorhynchus rufus* Péron & Lesueur, Voy. Terres Austr., 1807, pl. xxxiv.

*Ornithorhynchus brevirostris* Ogilby, Proc. Zoöl. Soc., 1831, p. 150.

*Ornithorhynchus crispus* Macgilliv., Mem. Wern. Soc., VI, 1832, p. 128.

*Ornithorhynchus lævis* Macgilliv., Mem. Wern. Soc., VI, 1832, p. 132.

*Ornithorhynchus anatinus* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 191. Thomas, Cat. Marsup. & Monotr. Brit. Mus., 1888, p. 388.



## DUCK-BILLED PLATYPUS.

1. Adult — P. Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — P. Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family II. **Tachyglossidæ.**Genus 2. **Tachyglossus. Echidnas.**

**Tachyglossus** Illig., Prodr. Syst. Mamm. et Av., 1811, p. 114.

Type *Myrmecophaga aculeata* Shaw.

*Echidna* G. Cuv., Tabl. Élé., 1798, p. 143. (nec Forster, 1788, Pisces.)

*Echinopus* G. Fisch., Zoogn., III, 1814, p. 691.

2. **Tachyglossus aculeatus** (Shaw).

*Myrmecophaga aculeata* Shaw, Nat. Misc., III, 1792, pl. cix. *Id.*

Gen. Zool., 1, Pt. 1, 1800, p. 175, pl. LIV.

*Ornithorhynchus hystrix* Home, Phil. Trans., 1802, p. 348, pls. X-XII.

*Echidna hystrix* E. Geoff., Cat. Mus., 1803, p. 224.

*Echidna australiensis* Less., Man. Mamm., 1827, p. 318.

*Echidna acanthion* Coll., Forh. Vid. Selsk., 1884, No. 13. *Id.*

Proc. Zool. Soc., 1885, p. 148, pl. x.

## COMMON ECHIDNA.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. **Tachyglossus aculeatus setosus** (E. Geoffroy).

*Echidna setosa* E. Geoff., Cat. Mus., 1803, p. 226.

*Echidna breviaculeata* Tiedem., Zool., 1, 1808, p. 592.

*Tachyglossus setosus* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 114.

*Echinopus setosus* G. Fisch., Zoogn., III, 1814, p. 694.

## HAIRY ECHIDNA.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

## SUBCLASS II. METATHERIA.

### Order II. **Marsupialia. Marsupials.**

#### Family I. **Didelphyidæ. Opossums.**

##### Genus 3. **Marmosa.**

**Marmosa** Gray, Lond. Med. Repos., xv., 1821, p. 308. Type *Didelphis! murina* Linnæus.

*Micoureus* Less., Tabl. Règn. Anim., 1842, p. 186.

*Asagis* Glog., Hand- u. Hilfsb. Naturg., I, 1841, p. 82.

*Notagogus* Glog., Hand- u. Hilfsb. Naturg., I, 1841, p. 82.

*Thylamys* (sic) Gray, List Spec. Mamm. Brit. Mus., 1843, p. 101.

*Grymæomys* Burm., Syst. Uebers. Thiere Bras., I, 1854, p. 135.

*Microdidelphis!* Burm., Erläut. Faun. Bras., 1856, p. 83, Taf. xiv, fig. 2, xv, figs. 1, 2.

*Cuica* Liais, Climats, Géol., Faun. et Geog., Botan. Brésil, 1872, p. 427.

#### 3. **Marmosa murina** (Linnæus).

*Didelphis! murina* Linn., Syst. Nat., I, 1758, p. 55.

*Didelphis! dorsigera* Linn., Syst. Nat., I, 1758, p. 55.

*Didelphys cayopollin* Schreb., Säugth., III, 1778, p. 544, pl. CXLVIII.

*Didelphis! guianensis* Kerr, Linn. Anim. Kingd., 1792, p. 194.

*Didelphis! impavida* Tschudi, Faun. Peruana, 1844, p. 149, pl. ix.

*Didelphys musculus* Cab., Schomb. Brit. Guiana, III, 1848, p. 778.

*Marmosa murina* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 5. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 2. Zoöl. Ser.

MURINE OPOSSUM. *Tlacuazin Ratton*, in Guatemala.

1. Adult — P. Honduras. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — Pres. Central America. Mrs. J. A. Tomhagen.

#### a. *Marmosa murina mexicana* Merriam.

*Marmosa murina mexicana* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 44. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M.



Pub., IV, Pt. 1, 1904, p. 6. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 2. Zoöl. Ser.

MEXICAN MURINE OPOSSUM.

1-2. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

4. **Marmosa cinerea** (Temminck).

*Didelphys cinerea* Temm., Mon. Mamm., I, 1827, p. 46.

*Micoureus cinereus* Less., Nouv. Tabl. Règn. Anim., 1842, p. 186.

*Didelphys noctivaga* Tschudi, Faun. Peruana, 1844, p. 148, pl. VIII.

*Grymaeomys scapulatus* Burm., Erläut. Faun. Bras., 1856, p. 79, pl. XII.

*Didelphys waterhousii* Tomes, Proc. Zoöl. Soc., 1860, pp. 58, 217, 307, fig. & pl. LXXVI.

*Marmosa cinerea* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 7, fig. 11. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 3. Zoöl. Ser.

ASHY OPOSSUM.

1. Adult — P. Venezuela. Deyrolle Fils.

5. **Marmosa marica** Thomas.

*Marmosa marica* Thos., Ann. Mag. Nat. Hist., 7th Ser., I, 1898, p. 455.

MARICA OPOSSUM.

1. Adult — P. Venezuela. Deyrolle Fils.

6. **Marmosa pusilla** (Desmarest).

*Didelphys pusilla* Desm., Nouv. Dict. Hist. Nat., xxiv, 1804, p. 19.

*Didelphys nana* Illig., Abh. Akad. Berl., 1815, p. 107.

*Didelphys elegans* Lund, Blik Bras. Dyrev., K. Dansk. Vidensk. Afhandl., ix, 1842, p. 135. (nec Waterhouse.)

*Grymaeomys agilis* Burm., Erläut. Faun. Bras., 1856, p. 82, pl. xv, fig. 1; pl. ix, fig. 6.

PIGMY OPOSSUM.

1. Adult — P. Venezuela. Deyrolle Fils.

7. **Marmosa chapmani** Allen.

*Didelphis! (Micoureus) murina* Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 230. (nec Linnæus.)

*Marmosa chapmani* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1900 p. 197.

## CHAPMAN'S OPOSSUM.

1. Adult ♀ Paratype. Exch. Caura, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
- 2-3. Adult ♂ Exch. Princetown, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

Genus 4. *Caluromys*.

*Caluromys* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1900, p. 189.  
Type *Didelphis! philander* Linnæus.

a. *Caluromys laniger pallidus* (Thomas).

*Philander laniger pallidus* Thos., Ann. Mag. Nat. Hist., 7th Ser.,  
IV, 1899, p. 286.



FIG. 1. *CALUROMYS DERBIANUS*. EARL OF DERBY'S OPOSSUM.

*Caluromys laniger pallidus* Allen, Bull. Am. Mus. Nat. Hist. N. Y.,  
1900, p. 189. Elliot, Mamm. Middle Amer. & W. Indies,  
F. C. M. Pub., IV, Pt. 1, 1904, p. 10. Zoöl. Ser. *Id.*  
Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,  
VI, 1905, p. 4. Zoöl. Ser.

## PALE WOOLLY OPOSSUM.

1. Adult — P. Honduras. Ward's Nat. Scien. Establ., Rochester,  
N. Y.

Genus 5. *Metachirus*.

*Metachirus* Burm., Syst. Uebers. Thier. Bras., I, 1854, p. 135. Type  
*Didelphys nudicaudata* E. Geoffroy.



a. *Metachirus fuscogriseus pallidus* Allen.

*Metachirus fuscogriseus pallidus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1901, p. 215. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 13. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 5. Zool. Ser.

ORIZABA OPOSSUM.

1-6. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

7-8. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

8. *Metachirus opossum* (Linnæus).

*Didelphis! opossum* Linn., Syst. Nat., I, 1758, p. 55.

*Didelphis! quica* Temm., Mon. Mamm., I, 1827, p. 36.

QUICA OPOSSUM.

1. Adult — P. Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 6. **Didelphys.**

**Didelphis** (sic) Linnæus, Syst. Nat., I, 1758, p. 54. Type *Didelphis! marsupialis* Linnæus.

*Philander* Brisson, Regn. Anim., 1762, pp. 13, 207.

Subgenus A. *Philander*.

9. **Didelphys trinitatis** Thomas.

*Didelphys trinitatis* Thos., Ann. Mag. Nat. Hist., 6th Ser., XIII, 1894, p. 438.

PHILANDER OPOSSUM.

1-2. Adult ♂ Exch. Caura, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

Subgenus B. **Didelphys.**

10. **Didelphys marsupialis** Linnæus.

*Didelphis! marsupialis* Linn., Syst. Nat., I, 1758, p. 54. Thos., Am. Nat., xxxv, 1901, p. 144.

*Didelphis! karkinophaga!* Zimm., Geogr. Gesch., II, 1780, p. 226.

*Didelphis! carcinophaga* Bodd., Elench. Anim., I, 1785, p. 77.

*Didelphis! cancrivora* Gmel., Syst. Nat., I, 1788, p. 108.

## LINNÆUS'S OPOSSUM.

1. Adult ♂ Exch. Princetown, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
2. Adult — P. Venezuela. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Didelphys marsupialis etensis* Allen.

*Didelphis! karkinophaga caucæ* Bangs, Amer. Nat., xxxv, 1901, p. 633. (nec Allen.)

*Didelphis! marsupialis etensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1902, p. 262.

*Didelphys marsupialis etensis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 18. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 8. Zoöl. Ser.

## ETEN OPOSSUM.

- 1-3. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 4-6. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 7-8. Juv. ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 9-10. Juv. ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

11. *Didelphys mesamericana* Oken.

*Didelphis! mesamericana* Oken, Lehrb. der Zool., II, 1816, p. 1152.

*Didelphis! californica* Bennett, Proc. Zoöl. Soc., 1833, p. 40.

*Didelphys californica* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 3.

*Didelphys mesamericana* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 15, fig. v, pl. II. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 6. Zoöl. Ser.

## MEXICAN OPOSSUM.

- 1-6. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 7-10. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
11. Adult ♂ Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
- 12-13. Adult ♀ Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
14. Adult ♂ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.
- 15-16. Adult — Coll. ———? State of Jalisco, Mexico. F. E. Lutz.



- 17-22. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 23. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 24-25. Adult ♀ Coll. Noble, Oklahoma Territory. T. Surber
- 26. Adult ♂ Coll. Geronimo, State of Oaxaca, Mexico. Heller & Barber.
- 27. Adult ♀ P. Mazatlan, State of Jalisco, Mexico. A. Forrer.
- 28. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 29. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

*a. Didelphys mesamericana tabascensis* (Allen).

*Didelphis! marsupialis tabascensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1901, p. 173.

*Didelphys mesamericana tabascensis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 16. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 6. Zoöl. Ser.

**TABASCO OPOSSUM.**

- 1-3. Adult ♂ Black phase. Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 4-5. Adult ♀ Gray phase. Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 6. Adult ♂ Gray phase. Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
- 7. Adult ♂ Black phase. Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.

**12. Didelphys virginiana** Kerr.

*Didelphis! virginiana* Kerr, Anim. Kingd., 1792, p. 193. Shaw, Gen. Zoöl. I, Pt. 2, 1800, p. 473.

*Didelphis! virginiana pigra* Bangs, Proc. Bost. Soc. Nat. Hist., 1898, p. 172.

*Didelphys virginiana* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 1, fig. 1. Zoöl. Ser. *Id.* Pub. Field Columb. Mus., III, 1901, p. 32. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 7. Zoöl. Ser.

*Didelphys virginiana pigra* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 1. Zoöl. Ser.

**VIRGINIAN OPOSSUM.**

- 1-8. Adult & juv. — P. Illinois. Ward's Nat. Scien. Establ., Rochester, N. Y.

9. Adult — Albino. P. Little Beaver Creek, Wake County, N. Carolina. R. L. Bagley.
10. Adult ♂ Coll. White Sulphur Springs, W. Virginia. T. Surber.
11. Adult ♂ Coll. Enterprise, Florida. T. Surber.
- 12-13. Adult ♀ Coll. Enterprise, Florida. T. Surber.
14. Adult ♂ Coll. Gainesville, Florida. T. Surber.
15. Adult ♀ Coll. New Berlin, Florida. T. Surber.
16. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T. Surber.

Family II. **Dasyuridæ. Thylacine and Dasyures.**

Genus 7. **Sarcophilus.**

**Sarcophilus** F. Cuv., Hist. Nat. Mamm., iv, livr. LXX, 1837, 6 pp. text & pl. Type *Didelphys ursina* Harris.

*Diabolus* Gray, Grey's Journ. Two Exped. North-west and West. Austr., II, 1841, Append., p. 400.

13. **Sarcophilus ursinus** (Harris).

*Didelphys ursina* Harris, Trans. Linn. Soc., ix, 1808, p. 176, pl. XIX, fig. 2. (nec Shaw.)

*Dasyurus ursinus* Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1805, p. 305.

*Sarcophilus ursinus* F. Cuv., Hist. Nat. Mamm., iv, 1837, pl. LXX.

*Diabolus ursinus* Gray, Grey's Journ. Two Exped. North-west and West. Austr., II, 1841, Append., p. 400.

TASMANIAN DEVIL.

1. Adult — P. Van Dieman's Land. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 8. **Dasyurus.**

**Dasyurus** E. Geoff., Mag. Encyclop., III, 1796, p. 469. *Id.* Bull. Soc. Philom., I, 1796, p. 106. Type *Didelphis! viverrinus* Shaw.

14. **Dasyurus maculatus** (Kerr).

*Viverra maculata* Kerr, Anim. Kingd., 1792, p. 170.



*Mustela novæ-hollandiæ* Meyer, Syst. Uebers. Zool. Entd. Neu-Holl., 1793, p. 27.

*Dasyurus macrourus* Geoff., Ann. Mus. Hist. Nat. Paris, III, 1804, p. 358.

*Dasyurus maculatus* Fisch., Zoogn., II, 1813, p. 584.

*Dasyurus ursinus* Gieb., Bronn's Kl. u. Ordn., VI, Abth. v, 1874, pl. XVIII, figs. 4, 5. (nec Harris.)

SPOTTED-TAILED DASYURE.

1. Adult — P. Tasmania. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family III. **Peramelidæ. Bandicoots.**

Genus 9. **Thylacomys.**

**Thalacomys** (misprint) Owen, Blyth's Cuv. Anim. Kingd., 1840, p. 104. Type *Perameles lagotis* Reid.

*Macrotis* Reid, Proc. Zool. Soc., 1836, p. 131. (nec Dejean, 1833, Coleopt.)

*Paragalina* (sic) Gray, Grey's Journ. Two Exped. North-west and West. Austr., II, 1841, Append., p. 401.

15. **Thylacomys lagotis** (Reid).

*Perameles lagotis* Reid, Proc. Zool. Soc., 1836, p. 129.

RABBIT BANDICOOT.

1. Adult — P. West Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family IV. **Phascolomyidæ. Wombats.**

Genus 10. **Phascolomys.**

**Phascolomis!** E. Geoff., Ann. Mus. Hist. Nat. Paris, II, 1803, p. 364.

Type *Didelphis! ursina* Shaw.

*Vombatus* E. Geoff., Bull. Soc. Philom. Paris, III, 1803, p. 185.

*Amblotis* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 77.

*Lasiiorhinus* Gray, Ann. Mag. Nat. Hist., 3rd Ser., XI, 1863, p. 458.

16. **Phascolomys ursinus** (Shaw).

*Didelphis! ursina* Shaw, Gen. Zool., I, Pt. 2, 1800, p. 504.

*Wombatius fossor* Desm., Nouv. Dict. d'Hist. Nat., xxiv, 1803, p. 20.

*Amblotis fossor* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 77.

*Phascolomys fusca* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 78.

*Phascolomys vombatius* Leach, Zool. Misc., II, 1815, p. 102, pl.

xcvi.

*Phascolomys ursinus* G. Cuv., Règn. Anim., I, 1817, p. 185.

*Phascolomys bassii* Less., Man. Mamm., 1827, p. 229.

#### TASMANIAN WOMBAT.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

### Family V. **Phalangeridæ. Phalangers.**

#### Subfamily I. **Phalangerinæ.**

#### Genus II. **Phalanger.**

**Phalanger** Storr, Prodr. Meth. Mamm., 1780, p. 33. Type *Didelphis! orientalis* Pallas.

*Phalangista* G. Cuv. & E. Geoff., Mag. Encyclop., II, 1795, pp. 183, 187.

*Cæscoes* Lacép., Tabl. Mamm., 1799, p. 5.

*Balantia* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 77.

*Sipalus* Fisch., Zoogn., II, 1813, p. 581.

*Cuscus* Less., Voy. 'Coquille,' Zool., I, 1826, p. 150.

*Ceonyx* Temm., Mon. Mamm., I, 1827, p. 10.

*Ailurops* Wagl., Nat. Syst. Amph., Säugth., 1830, p. 26.

*Euscus* Gray, Proc. Zool. Soc., 1861, p. 316.

*Spilocuscus* Gray, Proc. Zool. Soc., 1861, p. 316.

*Strigocuscus* Gray, Proc. Zool. Soc., 1861, p. 319.

#### 17. **Phalanger orientalis** (Pallas).

*Didelphis! orientalis* Pall., Misc. Zool., 1766, p. 59.

*Didelphis! indica* Müll., Linn. Naturs., Suppl., VII, 1776, p. 35.

*Phalanger orientalis* Storr, Prodr. Meth. Mamm., 1780, p. 33.

*Didelphis! molucca* Gmel., Syst. Nat., I, 1788, p. 106.

*Cæscoes amboinensis* Lacép., Mém. Instit., III, 1801, p. 491.

*Phalangista alba* E. Geoff., Cat. Mus. Paris, 1803, p. 148.

*Phalangista rufa* E. Geoff., Cat. Mus. Paris, 1803, p. 149.

*Phalangista minor* and *fusca* Schinz, Cuv. Thierr., I, 1821, p. 258.



*Phalangista cavifrons* Temm., Mon. Mamm., I, 1827, p. 17, pl. 1, figs. 7-9; pl. II, figs. 7-10.

*Phalangista gymnotis* Peters & Doria, Ann. Mus. Genov., VII, 1875, p. 543.

*Cuscus vestitus* Milne-Edw., Comptes Rendus Acad. Sci. Paris, 1877, p. 1080.

GRAY CUSCUS.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 12. **Trichosurus.**

**Trichosurus** Less., Dict. Class. Hist. Nat., XIII, 1828, p. 333. Type *Didelphis! vulpecula* Kerr.

*Psilogrammurus* Glog., Hand-u. Hilfsb. Naturg., 1841, p. 85.

*Trichurus* Wagn., Schreb. Säugth., Suppl., III, 1843, p. 74.

18. **Trichosurus vulpecula** (Kerr).

*Didelphis! vulpecula* Kerr, Anim. Kingd., 1792, p. 198.

*Didelphis! vulpina* Meyer, Syst. Uebers. Zool. Entd. Neu-Holl., 1793, p. 23.

*Didelphis! tapouaru* Meyer, Syst. Uebers. Zool. Entd. Neu-Holl., 1793, p. 24.

*Didelphis! lemurina* Shaw, Gen. Zoöl., I, Pt. II, 1800, p. 487, pl. cx.

*Ursus novæ hollandiæ* Bechst., in Penn. Allgem. Uebers. vierf. Thiere, II, 1800, pp. 337, 683.

*Phalangista lemurina* G. Cuv., Règn. Anim., I, 1817, p. 179.

*Phalangista vulpina* Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 475.

*Phalangista cooki* F. Cuv., Hist. Nat. Mamm., III, livr. XLV, 1824.

*Phalangista bougainvillei* Fisch., Syn. Mamm., 1829, p. 583.

*Balantia vulpina* Wagl., Nat. Syst. Amph., Säugth., 1830, p. 25.

*Phalangista xanthopus* Ogilby, Proc. Zoöl. Soc., 1831, p. 135.

*Phalangista cuvieri* Gray, Grey's Journ. Two Exped. North-western and West. Austr., II, 1841, Append., p. 401.

*Trichosurus xanthopus* Less., Nouv. Tabl. Règn. Anim., Mamm., 1842, p. 189.

*Phalangista melanura* Wagn., Schreb. Säugth., Suppl., III, 1843, p. 81.

*Phalangista hypoleucus* Wagn., Schreb. Säugth., Suppl., v, 1855, p. 273, pl. xxii.

COMMON PHALANGER.

1. Adult — P. Victoria, Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Trichosurus vulpecula fuliginosus* (Ogilby).

*Phalangista fuliginosa* Ogilby, Proc. Zool. Soc., 1831, p. 135.

*Phalangista felina* Wagn., Schreb. Säugth., Suppl., III, 1843, p. 76.

TASMANIAN PHALANGER.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

19. *Trichosurus caninus* (Ogilby).

*Phalangista canina* Ogilby, Proc. Zool. Soc., 1835, p. 191.

SHORT-EARED PHALANGER.

1. Adult — P. Victoria? Australia? Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 13. **Petauroides.**

**Petauroides** Thos., Cat. Marsup. & Monotr. Brit. Mus., 1888, p. 163.

Type *Didelphis! volans* Kerr.

*Voluccella* Bechst., in Penn. Allgem. Uebers. vierf. Thiere, II, 1800, p. 351. (nec Geoff., 1764; nec Fabr., 1794, Diptera.)

*Petaurista* Desm., Mamm., I, 1820, p. 268. (nec Link, 1795; nec Fisch., 1814.)

20. **Petauroides volans** (Kerr).

*Didelphis! volans* Kerr, Anim. Kingd., 1792, p. 199.

*Didelphis! macroura* Shaw, Zool. New Holland, I, 1794, p. 33, pl. XII.

*Phalangista petaurista* E. Geoff., Cat. Mus. Paris, 1803, p. 150.

*Petaurus macrurus* Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 402.

*Petaurus peronii* Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 404.

*Petaurus taguanoides* Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 400.

*Petaurus didelphoides* F. Cuv., Dents Mamm., 1825, pp. 129, 253.

*Petaurus leucogaster* Mitch., Exped. East Austr., I, 1838, p. xvii.

*Petaurus volans* Thos., Ann. Mag. Nat. Hist., 5th Ser., IV, 1879, p. 397.

TAGUAN FLYING PHALANGER.

1. Adult — P. Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.



Genus 14. **Dactylopsila.**

**Dactylopsila** Gray, Proc. Zool. Soc., 1858, p. 109. Type *Dactylopsila trivirgata* Gray.

21. **Dactylopsila trivirgata** Gray.

*Dactylopsila trivirgata* Gray, Proc. Zool. Soc., 1858, p. 111, pl. LXIII.

*Phalangista trivirgata* Schleg., Dierent., 1872, p. 166.

*Dactylopsila albertisi* Peters & Doria, Ann. Mus. Genov., VII, 1875, p. 542.

*Phalangista* (*Dactylopsila*) *angustivittis* Peters & Doria, Ann. Mus. Genov., XVI, 1881, p. 674.

## STRIPED PHALANGER.

1. Adult — P. Mount Gayata, Richardson Range, Australia. E. Gerrard & Sons.

Genus 15. **Petaurus.**

**Petaurus** Shaw, Nat. Misc., II, 1791, pl. LX, text. Type *Petaurus australis* Shaw.

*Ptilotus* Fisch., Zoogn., III, 1814, p. 512.

*Belideus* Waterh., Proc. Zool. Soc., 1839, p. 151.

*Xenochirus* Glog., Hand- u. Hilsfb. Naturg., I, 1841, p. 85.

22. \* **Petaurus sciureus** (Shaw).

*Didelphis! sciurea* Shaw, Zool. New Holl., I, 1794, p. 29, pl. XI.

*Voluccella sciurea* Bechst., in Penn. Allegm. Uebers. vierf. Thiere, II, 1800, pp. 352, 686.

*Petaurus sciureus* Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 403.

*Petaurista sciurea* Desm., Mamm., I, 1820, p. 270.

*Phalangista sciurea* Schinz, Cuv. Thierr., I, 1821, p. 260.

*Belideus sciureus* Less., Nouv. Tab. Règn. Anim., Mamm., 1842, p. 189.

*Belideus gracilis* De Vis, Proc. Linn. Soc. N. S. Wales, VII, 1882, p. 619.

## SQUIRREL FLYING PHALANGER.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

\* As it is impossible to determine whether Phillips's description of the "Norfolk Island Flying Squirrel," Voy. Bot. Bay, 1789, p. 151, pl. XVII, refers to the *P. sciureus* or *P. breviceps*, the only difference between them being the size of the molars, it is best to drop Kerr's name, *Sciurus* (*Petaurus*) *norfolcensis* as undeterminable in favor of the one bestowed by Shaw, l. c.

Genus 16. **Acrobates.**

**Acrobates** Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 405. Type

*Didelphis! pygmæa* Shaw.

*Cercopithecus* Glog., Hand- u. Hilfsb. Naturg., 1841, p. 85.

23. **Acrobates pygmæus** (Shaw).

*Didelphis! pygmæa* Shaw, Zool. New Holl., 1, 1794, p. 5, pl. 11.

*Voluccella pygmæa* Bechst., in Penn. Allgem. Uebers. vierf. Thiere,  
11, 1800, pp. 352, 686.

*Phalangista pygmæa* E. Geoff., Cat. Mus. Paris, 1803, p. 151.

*Acrobates pygmæus* Desm., Nouv. Dict. Hist. Nat., xxv, 1817,  
p. 405.

*Petaurista pygmæa* Gray, Griff. Anim. Kingd., v, 1827, p. 200.

*Petaurus pygmæus* Less., Dict. Class. Hist. Nat., XIII, 1828, p. 289.

*Dromicia frontalis* De Vis, Proc. Linn. Soc. N. S. Wales, 1, 1887,  
p. 1134.

## PIGMY FLYING PHALANGER.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ.,  
Rochester, N. Y.

Subfamily II. **Phascolarctinæ.**Genus 17. **Phascolarctus.**

**Phascolarctus** Blainv., Bull. Soc. Philom. Paris, 1816, p. 116.

Type (*Lipurus cinereus* Goldfuss auct., 1819!)

*Lipurus* Goldf., Schreb. Säugth., 1817, pls. clv, Aa, Ab. (nec  
Illig., 1811.)

*Morodactylus* Goldf., Handb. Zool., 11, 1820, p. 445.

24. **Phascolarctus cinereus** (Goldfuss).

*Lipurus cinereus* Goldf., Isis, 1819, p. 274.

*Morodactylus cinereus* Goldf., Zool. 11, 1820, p. 445.

*Phascolarctus fuscus* Desm., Mamm., 1, 1820, p. 276.

*Phascolarctus koala* Gray, Griff. Anim. Kingd., 1827, p. 205.

*Phascolarctus flindersi* Less., Man. Mamm., 1827, p. 221.

*Phascolarctus cinereus* Fisch., Syn. Mamm., 1829, p. 285.

## KOALA.

1. Adult — P. Victoria, Australia. Ward's Nat. Scien. Establ.,  
Rochester, N. Y.



Family VI. **Macropodidæ. Kangaroos.**Subfamily I. **Potoroinæ.**Genus 18. **Potorous.**

**Potorous** Desm., Nouv. Dict. Hist. Nat., xxiv, 1804, p. 20. Type

*Didelphis! tridactyla* Kerr.

*Hypsiprymnus* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 79.

**25. Potorous tridactylus** (Kerr).

*Didelphis! tridactyla* Kerr, Anim. Kingd., 1792, p. 198.

*Didelphis! potoru* Meyer, Syst. Uebers. Zool. Entd. Neu-Holl.,

1793, p. 13.

*Didelphis! murina* Cuv., Tabl. Élém., 1798, p. 126. (nec Linn.)

*Yerboa potoru* Bechst., in Penn. Allgem. Uebers. vierf. Thiere, II, 1800, pp. 356, 686.

*Macropus minor* Shaw, Gen. Zoöl., I, Pt. 2, 1800, p. 513, pl. cxvi.

*Kangurus murinus* Tiedem., Zool., 1808, p. 435.

*Hypsiprymnus potoru* Illig., Prods. Syst. Mamm. et Av., 1811, p. 79.

*Hypsiprymnus peronii* Quoy & Gaim., Voy. 'Uranie,' Zool., 1824, p. 64.

*Hypsiprymnus setosus* Ogilby, Proc. Zoöl. Soc., 1831, p. 149.

*Hypsiprymnus myosurus* Ogilby, Proc. Zoöl. Soc., 1838, p. 62.

*Perameles tuckeri* Gray, Ann. Nat. Hist., v, 1840, p. 150.

*Hypsiprymnus apicalis* Gould, Mamm. Austr., 1851, pl. LXVIII.

*Potorous rufus* Higg. & Pett., Proc. Roy. Soc. Tasman., 1883, pp. 181, 196.

**COMMON RAT KANGAROO.**

1. Adult — P. South Australia. E. Gerrard & Sons.

2. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 19. **Bettongia.**

**Bettongia** Gray, Charlesw. Mag. Nat. Hist., I, 1837, p. 584. Type

*Hypsiprymnus cuniculus* Ogilby.

**26. Bettongia lesueuri** (Quoy & Gaimard).

*Hypsiprymnus lesueuri* Quoy & Gaim., Voy. 'Uranie,' Zool., 1824, p. 64.

*Hypsiprymnus grayi* Gould, Proc. Zoöl. Soc., 1840, p. 178.

*Bettongia grayi* Gray, Grey's Journ. Two Exped. North-west and West. Austr., II, 1841, Append., p. 403.

*Perameles harveyi* Waterh., Proc. Zool. Soc., 1842, p. 47.

LESUEUR'S RAT KANGAROO.

1. Adult — P. Victoria, South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 20. **Æpyprymnus.**

**Æpyprymnus** Garrod, Proc. Zool. Soc., 1875, p. 59. Type *Bettongia rufescens* Gray.

27. **Æpyprymnus rufescens** (Gray).

*Bettongia rufescens* Gray, Charlesw. Mag. Nat. Hist., I, 1837, p. 584.

*Hypsiprymnus melanotis* Ogilby, Proc. Zool. Soc., 1838, p. 62.

*Hypsiprymnus rufescens* Waterh., Jard. Nat. Libr., Mamm., XI, 1841, p. 188.

*Macropus rufescens* Schleg., Dierk., 1857, p. 687.

*Æpyprymnus rufescens* Garrod, Proc. Zool. Soc., 1875, p. 59.

RUFIOUS RAT KANGAROO.

1. Adult — P. New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. **Macropodinæ.**

Genus 21. **Dorcopsis.**

**Dorcopsis** Schleg. & Müll., Verh. Nat. Ges. Ned., 1839-44, p. 130. Type *Macropus mulleri* Schlegel.

28. **Dorcopsis luctuosa** (D'Albertis).

*Halmaturus luctuosus* D'Albertis, Proc. Zool. Soc., 1874, p. 110.

*Dorcopsis luctuosa* Garrod, Proc. Zool. Soc., 1875, p. 49, pls. VII, VIII, IX.

*Dorcopsis chalmersi* Mikl.-Macl., Proc. Linn. Soc. N. S. Wales, IX, 1884, p. 569, pl. XIX.

*Dorcopsis beccarii* Mikl.-Macl., Proc. Linn. Soc. N. S. Wales, X, 1885, p. 146, pl. XX, figs. 1-4.

GRAY DORCOPSIS.

1. Adult — P. S. E. New Guinea. E. Gerrard & Sons.

Genus 22. **Onychogale.**

**Onychogalea** (sic) Gray, Grey's Journ. Two Exped. North-west and West. Austr., II, 1841, Append., p. 402. Type *Macropus unguifer* Gould.

**29. Onychogalea frenata** (Gould).

*Macropus frenatus* Gould, Proc. Zool. Soc., 1840, p. 92.

*Macropus (Onychogalea) frænatus* Gray, Grey's Journ. Two Exped. North-west & West. Austr., II, 1841, Append., p. 402.

*Onychogalea! frænata* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 88.

*Halmaturus frænatus* Schinz, Syn. Mamm., I, 1844, p. 548.

BRIDLED WALLABY.

1. Adult — P. South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 23. **Macropus.**

**Macropus** Shaw, Nat. Misc., I, 1790, text, pl. xxxiii. Type *Macropus giganteus* Shaw = *Yerboa gigantea* Zimmermann.

*Kangurus* G. Cuv. & E. Geoff., Mag. Encyclop., II, 1795, pp. 180, 188.

*Halmaturus* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 80.

*Thylogale* Gray, Charlesw. Mag. Nat. Hist., I, 1837, p. 583.

*Osphranter!* Gould, Proc. Zool. Soc., 1842, p. 80.

*Setonix* Less., Nouv. Tabl. Régn. Anim., Mamm., 1842, p. 194.

*Gerboides* I. Geoff., Gerv. Hist. Nat. Mamm., II, 1855, p. 271.

*Phascolagus* Owen, Proc. Roy. Soc. Lond., XXI, 1873, p. 128.

*Boriogale* Owen, Phil. Trans. Roy. Soc. Lond., CLXIV, 1874, p. 247, pl. xx, figs. 12, 12a, 19; pl. XXI, fig. 5.

**30. Macropus thetidis** (Lesson).

*Halmaturus thetis!* Less., Man. Mamm., 1827, p. 229.

*Halmaturus thetidis* F. Cuv., Hist. Nat. Mamm., livr. LVI, 1829, pl.

*Macropus thetis!* Fisch., Syn. Mamm., 1829, p. 284.

*Halmaturus eugenii* Gray, Charlesw. Mag. Nat. Hist., I, 1837, p. 583. (nec Desm.)

*Halmaturus nuchalis* Wagn., Schreb. Säugth., Suppl., III, 1843, p. 128.

*Macropus thetidis* Waterh., Nat. Hist. Mamm., I, 1846, p. 144, pl. III, fig. 2. Gieb., Odontogr., 1855, p. 43, pl. XIX, figs. 11A & B.



## PADEMELON WALLABY.

1. Adult — P. Victoria, S. Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

31. *Macropus ualabatus* (Lesson & Garnot).

*Kangurus bruni* Desm., Nouv. Dict. Hist. Nat., xvii, 1817, p. 42. (nec Schreb.)

*Kangurus ualabatus* Less. & Garn., Voy. 'Coquille', Zool., i, 1826, p. 161, pl. vii.

*Macropus ualabatus* Less., Man. Mamm., 1827, p. 227.

*Halmaturus lessoni* Gray, Charlesw. Mag. Nat. Hist., i, 1837, p. 583.

*Halmaturus ualabatus* Gray, Grey's Journ. Two Exped. North-west & West. Austr., ii, 1841, Append., p. 402.

*Halmaturus nemoralis* Wagn., Schreb. Säugth., Suppl., iii, 1843, p. 114.

## BLACK-TAILED WALLABY.

1. Adult — P. Victoria, South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

32. *Macropus rufus* (Desmarest).

*Kangurus rufus* Desm., Mamm., Suppl., ii, 1822, p. 541.

*Kangurus laniger* Gaim., Bull. Soc. Philom., 1823, p. 138.

*Kangurus griseo-lanosus* Quoy & Gaim., Ann. Scien. Nat., v, 1825, p. 482.

*Macropus lanigerus* Gray, Griff. Anim. Kingd., iii, 1827, p. 49, pl.

*Macropus laniger* Less., Man. Mamm., 1827, p. 226.

*Macropus rufus* Benn., Cat. Nat. Hist. Austr. Mus., 1837, p. 6.

*Halmaturus laniger* Wagn., Schreb. Säugth., Suppl., iii, 1843, p.

110.

*Osphranter lanigerus* Gould, Strzelecki's N. S. Wales, 1845, p. 316.

*Osphranter rufus* Gould, Mamm. Austr., ii, 1853, pls. vi, vii.

*Macropus pictus* Gould, Proc. Zool. Soc., 1860, p. 373.

*Macropus ruber* Crisp, Proc. Zool. Soc., 1862, p. 135.

## RED KANGAROO.

1. Adult — P. Victoria, South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

33. *Macropus giganteus* (Zimmermann).

*Yerboa gigantea* Zimm., Spec. Zool. Geogr., 1777, p. 526.

*Jaçulus giganteus* Erxl., Syst. Regn. Anim., 1777, p. 409.

*Didelphys gigantea* Schreb., Säugth., iii, 1778, p. 552, pl. cliv.

*Didelphis! kenguru* Zimm., Geogr. Gesch., ii, 1780, p. 231.

*Macropus giganteus* Shaw, Nat. Misc., 1, 1790, pl. xxxiii.

*Macropus major* Shaw, Gen. Zool., 1, Pt. II, 1800, p. 505, pl. cxv.

*Kangurus giganteus* E. Geoff., Cat. Mus. Paris, 1803, p. 154.

*Halmaturus giganteus* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 80.

*Kangurus labiatus* Desm., Nouv. Dict. Hist. Nat., xvii, 1817, p. 33.

*Halmaturus griseofuscus* Goldfuss, Isis, 1819, p. 266.

*Halmaturus labiatus* Goldfuss, Isis, 1819, p. 266

*Halmaturus griseorufus* Goldfuss, Isis, 1819, p. 267.

*Macropus ocydromus* Gould, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 1.

#### GREAT GRAY KANGAROO.

1. Adult ♂ P. Victoria, South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ P. Victoria, South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Juv. — P. Victoria, South Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

SUBCLASS III. EUTHERIA.

Order III. **Edentata. Edentates.**

Family I. **Bradypodidæ. Sloths.**

Genus 24. **Choloepus.**

**Choloepus** Illig., Prodr. Syst. Mamm. et Av., 1811, p. 108. Type  
*Bradypus didactylus* Linnæus.

34. **Choloepus hoffmanni** Peters.

*Choloepus hoffmanni* Peters, Monatsb. K. Preuss. Ak. Wiss. Berl., 1858, p. 128. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 20, figs. 4, VI. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 9. Zoöl. Ser.



FIG. II. **CHOLOEPUS HOFFMANNI.** HOFFMANN'S SLOTH.



HOFFMANN'S SLOTH. *Perico Lijero* in Costa Rica.

- 1-4. Adult — P. Panama, Central America. Ward's Nat. Scien. Establ., Rochester, N. Y.  
 5-6. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.  
 7-10. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.  
 11. Juv. ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

### Genus 25. **Bradypus.**

**Bradypus** Linn., Syst. Nat., 1, 1758, p. 34. Type *Bradypus tridactylus* Linnæus.

*Acheus* F. Cuv., Dents Mamm., 1825, pp. 194, 256, pl. LXXVIII.

\* *Arctopithecus* Gray, List Spec. Mamm. Brit. Mus., 1843, p. XXVIII. (nomen nudum.) *Id.* Proc. Zoöl. Soc., 1849, pp. 65, 70-73, pl. XI.

*Scaopus* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1865, p. 678.

### 35. **Bradypus tridactylus** Linnæus.

*Bradypus tridactylus* Linn., Syst. Nat., 1, 1758, p. 34.

*Bradypus crinitus* Gray, Proc. Zoöl. Soc., 1849, p. 67.

#### THREE-TOED SLOTH.

- 1-2. Adult — P. Rio de Janeiro, Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.

## Family II. **Myrmecophagidæ. Anteaters.**

### Genus 26. **Cyclopes.**

**Cyclopes** Gray, Lond. Med. Repos., xv, 1821, p. 305. Type *Myrmecophaga didactyla* Linnæus.

*Didactyles* F. Cuv., Dict. Scien. Nat., LIX, 1829, p. 501.

*Myrmydon* Wagl., Nat. Syst. Amph., 1830, p. 36.

*Dionyx* I. Geoff., Rés. Leçons Mamm. Mus. Paris, 1835, p. 54.

*Myrmecolichnus* Reich., K. Säch. Naturh. Mus. Dresd., Ein Leitfaden, 1836, p. 51.

*Eurypterna* Glog., Hand- u. Hilfsb. Naturg., 1, 1841, pp. xxxi, 112.

\*By some oversight quite inexplicable, there was cited in the Check-List, p. 9, after this name: Verey, Nouv. Dict. Hist. Nat., XXI, 1819, p. 279, which was applied to a species of Monkey and has nothing in common with Gray's name.

*Cyclothurus* (sic) Less., Nouv. Tabl. Règn. Anim., Mamm., 1842, p. 152.

*Didactyla* Liais, Climats, Géol., Faun. et Geog., Botan. Brésil, 1872, p. 356.

**36. *Cyclopes dorsalis* (Gray).**

*Cyclothurus dorsalis* Gray, Proc. Zoöl. Soc., 1865, p. 385, pl. 19.

*Cyclopes dorsalis* Elliot, Mamm. Middle Amer. & W. Indies, F.

C. M. Pub., IV, Pt. 1, 1904, p. 25, figs. 6, VIII. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,

VI, 1905, p. 10. Zoöl. Ser.

**LITTLE OR TWO-TOED ANTEATER.**

1. Adult — P. Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.

**Genus 27. *Tamandua*.**

***Tamandua*** Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 5, Tab.

Gen., 1775. Type *Myrmecophaga tetradactyla* Linnæus.

*Tamanduas* F. Cuv., Dict. Scien. Nat., LIX, 1829, p. 501.

*Uroleptes* Wagl., Nat. Syst. Amphib., 1830, p. 36.

**37. *Tamandua tetradactyla* (Linnæus).**

*Myrmecophaga tetradactyla* Linn., Syst. Nat., I, 1758, p. 35.

*Myrmecophaga myosura* Pall., Miscell. Zoöl., 1766, p. 64.

*Ursine Anteater* Griff., Anim. Kingd., III, 1827, p. 304, pl.

*Myrmecophaga crispus* Rüpp., Mus. Senck., III, 1845, p. 179.



FIG. III. TAMANDUA TETRADACTYLA.  
THREE-TOED ANTEATER.

*Tamandua bivittata* Gray, Proc. Zool. Soc., 1865, p. 384.

*Myrmecophaga quadridactyla* True, Proc. U. S. Nat. Mus., 1885, p. 588.

*Tamandua tetradactyla* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 27, figs. 7, IX, X. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 10. Zool. Ser.

### THREE-TOED ANTEATER.

1. Adult — P. South America. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Juv. — P. Brazil, South America.. Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Adult — P. Bonda, Colombia, South America. H. H. Smith.
4. Juv. — P. Bonda, Colombia, South America. H. H. Smith.
5. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
6. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

### 38. *Tamandua longicauda* (Wagner).

*Myrmecophaga longicauda* Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 210.

*Tamandua longicaudata* Gray, Cat. Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 392.

### LONG-TAILED ANTEATER.

1. Adult — P. Trinidad ? Ward's Nat. Scien. Establ., Rochester, N. Y.

## Genus 28. *Myrmecophaga*.

*Myrmecophaga* Linn., Syst. Nat., I, 1758, p. 35. Type *Myrmecophaga tridactyla* Linnæus.

### 39. *Myrmecophaga tridactyla* Linnæus.

*Myrmecophaga tridactyla* Linn., Syst. Nat., I, 1758, p. 35. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 29, figs. 8, XI. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 12. Zool. Ser.

### GREAT ANTEATER. *Oso Real* in Costa Rica.

1. Adult — P. Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.



Family III. **Dasypodidæ. Armadillos.**Subfamily I. **Chlamyphorinæ.**Genus 29. **Chlamyphorus.**

**Chlamyphorus** (sic) Harlan, Ann. N. Y. Lyc. Nat. Hist., 1, Pt. 2, 1825, p. 235, pls. XIX-XXI. Type *Chlamyphorus! truncatus* Harlan.

*Burmeisteria* Gray, Proc. Zool. Soc., 1865, p. 381.

40. **Chlamyphorus truncatus** Harlan.

*Chlamyphorus! truncatus* Harlan, Ann. N. Y. Lyc. Nat. Hist., 1, 1825, pl. 4.

## THE PICHICHIAGO.

1. Adult — P. Mendoza, Argentine Republic. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 30. **Zaedyus.**

**Zaedyus** Ameghino, Contr. al Conoc. Mamif. Fos. Rep. Argent., 1889, p. 867. Type *Dasyus minutus* Desmaret.

*Dasyus* Linn., Syst. Nat., 1, 1758, p. 50. (Part.)

*Tatusie* F. Cuv., Hist. Nat. Mamm., 1822, text pl. 293.

*Tatusia* F. Cuv., in Less. Man. Mamm., 1827, p. 309. (Part.)

*Euphractus* Wagl., Nat. Syst. Amphib., 1830, p. 36. (Part.)

*Cryptophractus* Fitzin., Tagebl. 32, Versamml. Deutsch. Naturf. & Aertze, Wien, 1856, p. 123. (Part.)

*Dasyphractus* Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LXIV, Abth. 1, 1871, p. 264. (Part.)

*Chætophractus* Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LXIV, Abth. 1, 1871, p. 268. (Part.)

Subgenus A. **Zaedyus.**41. **Zaedyus ciliatus** (Fischer).

*Dasyus ciliatus* Fisch., Zoogn., III, 1814, p. 127.

*Dasyus patagonicus* Desm., Nouv. Dict. Hist. Nat., xxxii, 1819, p. 491.

*Dasyus minutus* Desm., Man. Mamm., 1822, p. 371.

*Tatusia minuta* Less., Man. Mamm., 1827, pp. 312, 347.

*Dasyus (Euphractus) minutus* Burm., Reise durch die La Plata-Staaten, II, 1861, p. 427.

*Euphractus minutus* Gray, Cat. Carniv. Pachyderm. & Edent.  
Mamm. Brit. Mus., 1869, p. 382.

THE PICHY.

1. Adult — P. Buenos Aires, Argentine Republic. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subgenus B. *Chetophractus*.

42. *Zaedyus villosus* (Desmarest).

*Dasypus villosus* Desm., Nouv. Dict. Hist. Nat., 1817, p. 489.

*Euphractus villosus* Gray, Proc. Zool. Soc., 1865, p. 376. *Id.*  
Cat. Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869,  
p. 382.

PELUDO.

1. Adult — P. Argentine Republic. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. *Tatuinæ*.

Genus 31. *Tatu*.

*Tatu* Frisch, Das Nat.-Syst. vierl. Thiere, in Tabellen, 5, Tab. Gen.,  
1775. Type *Dasypus novemcinctus* Linnaeus.

*Tatusia* P. Cuv., in Less. Man. Mamm., 1827, p. 309. (Part.)

*Cachicamus* McMurt., G. Cuv. Anim. Kingd., 1, 1831, p. 163.



FIG. IV. *TATU NOVEMCINCTUM*. NINE-BANDED ARMADILLO.

43. *Tatu novemcinctum* (Linnaeus).

*Dasypus novemcinctus* Linn., Syst. Nat., 1, 1758, p. 51.

*Dasypus octo-cinctus* Schreb., Säugeth., II, 1775, p. 222, Tab. LXXIII.

*Dasypus peba* Desm., Mamm., 1820, p. 368. Gray, Cat. Carniv.

Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 377.

*Dasypus longicaudus* Max., Beitr. Naturg. Bras., II, 1825, p. 531.

*Dasypus mexicanus fenestratus* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1864, p. 180.

*Tatusia leptorhynchus* Gray, Hand-L. Edent. Thick-skin. & Rumin.

Mamm. Brit. Mus., 1873, p. 15, pl. I, figs. 3, 4.

*Cabassous novemcinctus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 4, pl. I. Zool. Ser.

*Tatu novemcinctum* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 33, figs. 9, XIII. Zool. Ser.

*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 13. Zool. Ser.

#### NINE-BANDED ARMADILLO.

1. Adult — P. Texas. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — P. Cameron County, Texas. C. K. Worthern.
- 3-4. Adult ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
5. Adult ♂ Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.

### Family IV. **Manidæ. Pangolins.**

#### Genus 32. **Manis.**

**Manis** Linn., Syst. Nat., I, 1758, p. 36. Type *Manis pentadactyla* Linnaeus.

*Pholidotus* Briss., Regn. Anim., 1762, p. 18.

*Phataginus* Rafin., Analyse de la Nature, 1815, p. 57. (nomen nudum.) *Id.* Ann. Gén. Scien. Phys. Brux., VII, 1820, p. 214.

*Phatages* Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1843, pp. 258, 273. Gray, Proc. Zool. Soc., 1865, p. 368.

*Phatagin* Gray, Proc. Zool. Soc. Lond., 1865, p. 363, 2 figs. in text. *Id.* Cat. Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 368.

*Smutsia* Gray, Proc. Zool. Soc., 1865, p. 369.

*Triglochinchopholis* Fitzin., Sitzungs., Math.-Nat. Cl. K. Akad. Wiss. Wien., LXV, 1872, Abth. I, p. 27.

*Pangolin* Gray, Hand-L. Edent. Thick-skin. & Rumin. Mamm. Brit. Mus., 1873, p. 8.



**44. *Manis tetradactyla* Linnæus.***Manis tetradactyla* Linn., Syst. Nat., I, 1766, p. 53.*Manis macroura* Erxl.,

Syst. Regn. Anim.,

1777, p. 101.

*Manis africani* var.?

Desm., Mamm.,

1820, p. 376.



FIG. V. MANIS TETRADACTYLA. ATTADILLO.

*Manis longicauda* Sundev., K.

Sven. Vet.-Akad. Handl.

Stockh., 1842, p. 251. Gray,

Proc. Zool. Soc., 1865, p. 363.

*Id.* Cat. Carniv. Pachyderm.

&amp; Edent. Mamm. Brit. Mus., 1869, p. 367.

ATTADILLO, GAHLAH.

1. Adult — P. Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

**45. *Manis tricuspis* Rafinesque.***Manis tricuspis* Rafin., Ann. Gén. Scien. Phys. Brux., 1820, p. 214.*Manis 4-dactylus* Thomp., Proc. Zool. Soc., 1834, p. 28.*Manis multiscutata* Gray, Proc. Zool. Soc., 1843, p. 22. Fras.,

Zool. Typica, 1849, p. 15, pl. Gray, Proc. Zool. Soc., 1865,

p. 363. *Id.* Cat. Carniv. Pachyderm. & Edent. Mamm. Brit.

Mus., 1869, p. 368.

*Manis tridentata* Focillon, Rev. de Zool., 1850, p. 472, pl. 11.

PANGOLIN.

1. Adult — P. West Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

## Order IV. **Sirenia. Sirenians.**

### Family I. **Trichechidae.**

#### Genus 33. **Trichechus.**

**Trichechus** Linn., Syst. Nat., 1, 1758, p. 34. Type *Trichechus manatus* Linnæus.

*Manatus* Brünn., Zool. Fund., 1772, pp. 34, 38, 39.

*Halipædisca* Gistel, Naturg. Thierr. f. höhere Schul., 1848, p. 83.

#### 46. **Trichechus manatus** Linnæus.

*Trichechus manatus* Linn., Syst. Nat., 1, 1758, p. 34. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 37, fig. XIV, pls. IV, v. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 14. Zoöl. Ser.

*Manatus latirostris* Harl., Journ. Acad. Nat. Scien. Phil., 1824, p. 111. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 6, pl. III. Zoöl. Ser.

*Manatus australis* Tilesius, Jahrb. Naturg., 1, 1802, p. 23.



FIG. VI. **TRICHECHUS MANATUS. MANATEE.**

*Manatus americanus* Desm., Nouv. Dict. Hist. Nat., 1817, p. 262, pl. 96. (Part.)

*Manatus fluviatilis* Wagn., Schreb. Säugth., Suppl., 1846, pl. 379.  
MANATEE. *Vacca de Agua* in Guatemala.

1. Adult — P. Florida. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — Pres. Florida. C. B. Cory, Boston, Mass.

3-4. Adult ♂ Coll. Izabal, Guatemala. Heller & Barber.

5-6. Adult ♀ Coll. Izabal, Guatemala. Heller & Barber.

## Family II. **Dugongidæ. Dugongs.**

### Genus 34. **Dugong.**

**Dugong** Lacépède, Tabl. Mamm., 1799, p. 17. Type *Trichecus dugon* Müller.

*Platystomus* Fisch., Das Nationalmus. Naturg. Paris, II, 1803, p. 353.

*Dugungus* Tiedem., Zool., I, 1808, p. 554.

*Halicore* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 140.

*Odobenus* (sic) Rafin., Analyse de la Nature, 1815, p. 60. (nec Briss., 1762.)

*Dugongidus* Gray, Lond. Med. Repos., xv, 1821, p. 309.

#### **47. Dugong australis** (Owen).

*Halicore australis* Owen, Jukes's Voy. of 'Fly,' II, 1847, Append., VI, p. 323, pl. 27, figs. 1, 3; 5.

#### DUGONG.

1. Adult — P. Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.



## Order V. **Ungulata. Hoofed Mammals.**

### SUBORDER I. ARTIODACTYLA.

#### SECTION A. SUINA.

##### Family I. **Suidæ. Pigs.**

##### Genus 35. **Sus.**

- Sus** Linn., Syst. Nat., I, 1758, p. 49. Type *Sus scrofa* Linnæus.  
*Aper* Pall., Miscell. Zool., 1766, p. 16, tab. II, IV, figs. 1, 2, 4.  
*Capriscus* Glog., Hand- u. Hilfsb. Naturg., I, 1841, pp. XXXII,  
130.  
*Centuriosus* Gray, Proc. Zool. Soc., 1862, p. 17.  
*Gyrosus* Gray, Cat. Bones Mamm. Brit. Mus., 1862, p. 278.  
*Eusus* Gray, Proc. Zool. Soc., 1868, p. 32.  
*Euhys* Gray, Cat. Carniv. Pachyderm. & Edent. Mamm. Brit.  
Mus., 1869, p. 339.

#### 48. **Sus scrofa** Linnæus.

- Sus scrofa* Linn., Syst. Nat., I, 1758, p. 49. Gray, Cat. Carniv.  
Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 337.  
*Sus setosus aper* Bodd., Elench. Anim., I, 1785, p. 157.  
*Sus scrofa ferus* Gmel., Syst. Nat., 1788, p. 217.  
*Sus scrofa* var. *barbarus* Sclat., Proc. Zool. Soc., 1860, p. 443.  
*Sus libycus* Gray, Proc. Zool. Soc., 1868, p. 31.  
*Sus scrofa* var. *nigripes* Blanf., Jour. Asiat. Soc. Beng., XLIV,  
1875, p. 112.

#### WILD BOAR.

- I. Adult ♂ P. France. Ward's Nat. Scien. Establ., Rochester,  
N. Y.

#### 49. **Sus papuensis** Lesson & Garnot.

- Sus papuensis* Less. & Garn., Bull. Scien. Nat., VII, 1826, pp.  
80, 96.  
*Porcula papuensis* Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad.  
Wiss. Wien., 1864, p. 23. Gray, Cat. Carniv. Pachyderm. &  
Edent. Mamm. Brit. Mus., 1869, p. 339.  
*Sus aruensis* Rosenb., Malay Archip., 1878, p. 362.

## THE BENE.

1. Adult — P. New Guinea. Ward's Nat. Scien. Establ., Rochester, N. Y.

50. *Sus ahænobarbus* Huet.

*Sus ahænobarbus* Huet, Le Natural., 1888, p. 5, fig. 1. Elliot, Pub. Field Columb. Mus., 1, 1896, p. 67. Zoöl. Ser.

*Sus palavensis* Nehring, Abh. Zool. Mus. Dresd., 1889, pp. 22, 32.

*Sus balabacensis* F.-Major, Ann. Mag. Nat. Hist., 6th Ser., xix, 1897, p. 534.

## ISLAND OF PALAWAN WILD HOG.

1. Adult ♂ P. Island of Palawan, Philippine Archipelago. J. B. Steere.
2. Adult ♀ P. Island of Palawan, Philippine Archipelago. J. B. Steere.

51. *Sus celebensis* Müller & Schlegel.

*Sus celebensis* Müll. & Schleg., Verh. Zoogd. Ind. Arch., 1842, pl. 28 bis, fig. 1.

*Sus timorensis* Müll. & Schleg., Verh. Zoogd. Ind. Arch., 1842, pp. 42, 173, 178, pl. 31, figs. 1-3

*Sus philippinensis* Nehring, Sitzungsab. Geo. Nat. Fr., 1886, p. 83. (note.)

*Sus marcheii* Huet, Le Natural., 1888, p. 6, fig. 3. (nec skull.)

## MÜLLER'S WILD HOG.

1. Adult ♂ P. Philippine Islands. J. B. Steere.

Genus 36. *Macrocephalus*.

*Macrocephalus* Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 3, Tabl. Gen., 1775. Type *Aper æthiopicus* Pallas.

*Phaco-choerus* F. Cuv., in G. Cuv. Règn. Anim., 1817, p. 236.

*Eureodon* Fisch., Mém. Soc. Imp. Nat. Mosc., v. 1817, p. 373.

*Phöcochôrus* Voigt, Uebers. Naturg., 1819, p. 422.

*Phascochaeres* Rüpp., Atl. Reis. nörd. Africa, 1, 1826, p. 61.

*Phacellochoerus* Hemp. & Ehr., Sym. Phys., Mamm., II, 1832, Sig. qq. Nov.

*Dinochærus* Glog., Hand- u. Hilfsb. Naturg., 1, 1841, pp. xxxii, 131.

*Koiropotamus* Gray, List. Spec. Mamm. Brit. Mus., 1843, p. xxvii.

*Choiropotamus* Gray, List. Spec. Mamm. Brit. Mus., 1843, p. 185.

*Potamochoerus* Gray, Proc. Zoöl. Soc., 1852, p. 129, pl. xxxiv.

**52. *Macrocephalus africanus* (Gmelin).**

*Sus africanus* Gmel., Syst. Nat., 1, 1788, p. 220.

*Potamochoerus africanus* Gray, Proc. Zool. Soc., 1852, p. 131;  
1868, p. 34.

*Phacochoerus alicani* Sclat., Proc. Zool. Soc., 1869, p. 276, pl. xx.

*Phacochoerus africanus* Elliot, Pub. Field Columb. Mus., 1, 1897,  
p. 109. Zool. Ser.



FIG. VII. *MACROCEPHALUS AFRICANUS*. WART HOG.

WART HOG. *Dofar* in Somaliland.

1. Adult ♂ Coll. Mandera, Somaliland, E. Africa. D. G. Elliot.
2. Adult ♀ Coll. Hullieh, Somaliland, E. Africa. D. G. Elliot.
3. Juv. ♀ Coll. Mandera, Somaliland, E. Africa. D. G. Elliot.
4. Juv. ♂ Coll. Anouf Prairie, Somaliland, E. Africa. D. G. Elliot.



5-6. Juv. ♀ Coll. Anouf Prairie, Somaliland, E. Africa. D. G. Elliot.

**53. *Macrocephalus larvatus* (F. Cuvier).**

*Potamochoerus larvatus* F. Cuv., Mém. Mus. Hist. Nat., VIII, 1822, p. 447, pl. 22. F.-Major, Proc. Zool. Soc., 1897, p. 363, pls. XXV, 26, fig. 2, p. 365, figs. 1-2.

*Potamochoerus edwardsi* Grandidier, Rev. Mag. Zool., 1867, p. 318. Sclat., Proc. Zool. Soc., 1894, p. 92.

**MADAGASCAR WILD HOG.**

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

**Family II. Tagassuidæ. Peccaries.**

**Genus 37. Tagassu.**

**Tagassu** Frisch., Das Nat.-Syst. vierf. Thiere, in Tabellen, 3, Tab.

Gen., 1775. Type *Sus tajacu* Linnæus.

*Tayassu* Fisch., Zoogn., III, 1814, p. 284.

*Dicotyles* G. Cuv., Règn. Anim., I, 1817, p. 237.

*Notophorus* Fisch., Mém. Soc. Imp. Nat. Moscou, v, 1817, pp. 373, 418.

*Adenonotus* Brookes, Prodr. Syn. Anim., II, 1828.

**Subgenus A. Tagassu.**

**54. *Tagassu angulatum* (Cope).**

*Dicotyles angulatus* Cope, Amer. Nat., XXIII, 1889, p. 147.

*Dicotyles tajacu* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 33, pl. 11. Zool. Ser. (Part.)

*Tagassu angulatum* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 63, pls. XXV, XXVI. Zool. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 35. Zool. Ser.

**TEXAN PECCARY. *Moran, Jabali*, in Mexico.**

1. Adult ♂ P. Texas. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♀ P. Texas. Ward's Nat. Scien. Establ., Rochester, N. Y.

**a. *Tagassu angulatum humerale* (Merriam).**

*Tayassu angulatus humeralis* Merr., Proc. Biol. Soc. Wash., XIV, 1901, p. 122.

*Tagassu angulatum humerale* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 63. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 35. Zoöl. Ser.

ARMERIA PECCARY.

1. Adult ♀ Pres. Jalapa, State of Vera Cruz, Mexico. Kennedy & Stevenson.
2. Juv. ♂ Pres. Jalapa, State of Vera Cruz, Mexico. Kennedy & Stevenson.
- 3-9. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
- 10-12. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
13. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 14-17. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

55. *Tagassu torvus* (Bangs).

*Tayassu torvus* Bangs, Proc. Biol. Soc. Wash., XII, 1898, p. 164.

FIERCE PECCARY.

- 1-2. Adult — P. Naranja, Colombia, S. America. H. H. Smith.

Subgenus B. *Olidosus*.

*Dicotyles* Gray, Proc. Zoöl. Soc., 1868, p. 45. (nec Cuvier.)

*Olidosus* Merr., Proc. Biol. Soc. Wash., XIV, 1901, p. 120.

56. *Tagassu pecari* (Fischer).

*Tayassu pecari* Fisch., Zoogn., III, 1814, p. 285.

*Sus albirostris* Illig., Abhandl. K. Preuss. Akad. Wiss. Berl., 1815, p. 115.

*Dicotyles labiatus* Cuv., Règn. Anim., I, 1817, p. 238.

*Tagassu pecari* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 66. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 37. Zoöl. Ser.

WHITE-LIPPED PECCARY. *Warree*, Carablanca, in Costa Rica.

1. Adult — P. Naranja, Colombia, S. America. H. H. Smith.

## SECTION B. TYLOPODA.

Family III. **Camelidæ. Camels and Llamas.**Genus 38. **Camelus.**

**Camelus** Linnæus, Syst. Nat., I, 1758, p. 65. Type *Camelus dromedarius* Linnæus.

**57. Camelus dromedarius** Linnæus.

*Camelus dromedarius* Linn., Syst. Nat., I, 1758, p. 65.

*Camelus arabicus* Desmoul., Dict. Class. Hist. Nat., III, 1825, p. 452.

*Camelus dromas* Pall., Zoogr. Ross.-Asiat., 1831, p. 197.

## DROMEDARY.

1. Adult ♂ Pres. ———? Pure Food Company, Chicago.

**58. Camelus bactrianus** Linnæus.

*Camelus bactrianus* Linn., Syst. Nat., I, 1758, p. 65. et Auct.

## BACTRIAN OR TWO-HUMPED CAMEL.

1. Adult ♂ Pres. ———? Menagerie, Lincoln Park, Chicago.

Genus 39. **Lama.**

**Lama** Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 4, Tab. Gen., 1775. Type "*Das Amerikanische Kameel*" = *Camelus lacma* Cuvier.

*Lacma* Tiedem., Zool., 1808, pp. xv, 420.

*Llacma* Illig., Abhandl. K. Akad. Wiss. Berl., (1811) 1815, p. 48.

*Auchenia* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 103.

*Auchenias* Wagn., Archiv f. Naturg., 1843, p. 349.

**59. Lama huanacha** Molina.

*Lama huanachus* Molina, Sagg. Stor. Nat. Chili, I, 1782, p. 317.

Thomas, Proc. Zool. Soc., 1891, p. 387.

*Auchenia huanaca* Griff., Anim. Kingd., v, 1827, p. 299.

*Llama guanacus* Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p.

101.

## HUANACO.

1. Adult — P. Peru, S. America. Ward's Nat. Scien. Establ., Rochester, N. Y.



**60. Lama glama** (Linnæus).*Camelus glama* Linn., Syst. Nat., I, 1758, p. 65.*Lama glama* Thos., Proc. Zoöl. Soc., 1891, p. 387.LLAMA. Domestic race of *L. huanacha* Mol.

1-3. Adult — P. Peru, S. America. Ward's Nat. Scien. Establ., Rochester, N. Y.

**61. Lama pacos** (Linnæus).*Camelus pacos* Linn., Syst. Nat., I, 1758, p. 66.*Lama pacos* Thos., Proc. Zoöl. Soc., 1891, p. 387.ALPACA. Domestic race of *L. huanacha* Mol.

1. Adult — P. Peru, S. America. Ward's Nat. Scien. Establ., Rochester, N. Y.

**62. Lama vicugna** Molina.*Lama vicugna* Molina, Sagg. Stor. Nat. Chile, I, 1782, p. 313.

Thos., Proc. Zoöl. Soc., 1891, p. 387.

VICUGNA.

1. Adult — P. Peru, S. America. Ward's Nat. Scien. Establ., Rochester, N. Y.‡

## SECTION C. TRAGULINA. CHEVROTAINS.

Family IV. **Tragulidæ.**Genus 40. **Tragulus.****Tragulus** Brisson, Regn. Anim., 1762, pp. 12, 65. Type *Tragulus indicus* Brisson.*Meminna* Gray, Lond. Med. Repos., xv, 1821, p. 307. (nec Fischer, 1814.)**63. Tragulus meminna** (Erxleben).*Moschus meminna* Erxl., Syst. Regn. Anim., 1777, p. 322.*Meminna indica* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 172.*Tragulus meminna* Thos., Proc. Zoöl. Soc., 1891, p. 385.

INDIAN CHEVROTAIN.

1. Adult ♂ P. Ceylon. Ward's Nat. Scien. Establ., Rochester, N. Y.

## SECTION D. PECORA. RUMINANTS.

Family V. **Cervidæ. Deer.**Subfamily I. **Moschinæ.**Genus 41. **Moschus. Musk-deer.**

**Moschus** Linn., Syst. Nat., I, 1758, p. 66. Type *Moschus moschiferus* Linnæus.

*Odontodorcus* Gistel, Naturg. Thierr. für höhere Schulen, 1848, p. 82.

**64. Moschus moschiferus** Linnæus.

*Moschus moschiferus* Linn., Syst. Nat., I, 1758, p. 66.

*Moschus sibiricus* Esch., Isis, 1830, p. 606.

*Moschus moschiferus altaicus* Brant, Medicin. Zool., II, 1833, p. 347.

*Moschus chrysogaster* Hodg., Journ. Asiat. Soc. Beng., VIII, 1839, p. 203.

*Moschus leucogaster* Hodg., Journ. Asiat. Soc. Beng., VIII, 1839, p. 203.

*Moschus saturatus* Hodg., Journ. Asiat. Soc. Beng., VIII, 1839, p. 203.

*Moschus moschiferus fasciatus* Milne-Edw., Ann. Scien. Nat., Sér. 5me, II, 1864, p. 119.

**MUSK-DEER.**

1. Adult ♂ P. Altai Mountains, Asia. J. Friesser.

2. Adult ♀ P. Altai Mountains, Asia. J. Friesser.

Subfamily II. **Cervinæ.**Genus 42. **Muntiacus.**

**Muntiacus** Rafin., Analyse de la Nature, 1815, p. 56. Type *Cervus muntjak* Zimmermann.

*Cervulus* Blainv., Bull. Soc. Philom. Paris, 1816, p. 74.

*Stylocerus*! H. Smith, Griff. Anim. Kingd., v, 1827, p. 319.

*Prox* Ogilby, Proc. Zool. Soc., 1837, p. 135.

*Dicrocerus*! Lartet, Compt. Rend., v, 1837, p. 158.

*Dicroceros*! Agass., Nomen. Zool., Addend., 1846, p. 4.

*Dicroceras* Bedd., Cambrid. Nat. Hist., Mamm., x, 1902, p. 301.

**65. Muntiacus muntjak** (Zimmermann).

*Cervus muntjak* Zimm., Geog. Gesch., II, 1780, p. 131.

*Cervus vaginalis* Bodd., Elench. Anim., 1, 1785, p. 136.

*Cervulus moschatus* Blainv., Bull. Soc. Philom. Paris, 1816, p. 77.

*Cervus aureus* H. Smith, Griff. Anim. Kingd., IV, 1827, p. 148.

*Cervus ratwa* Hodg., Asiat. Research., XVIII, Pt. 2, 1833, p. 139,  
pl. 1.

*Cervus melas* Ogilby, Royle's Bot. Himal., 1839, p. LXXIII.

*Styloceros! muntiacus* Kelaart, Prodr. Faun. Zeyl., 1852, p. 85.

#### BARKING DEER.

1. Adult ♂ P. South West India. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♂ P. Borneo. Menage Scientific Exped. Bourns & Worcester.
3. Adult ♀ P. Borneo. Menage Scientific Exped. Bourns & Worcester.

#### Genus 43. **Elaphodus.**

**Elaphodus** A. Milne-Edw., Nouv. Archiv. Mus. Hist. Nat. Paris, 1871, p. 93. Type *Elaphodus cephalophus!* A. Milne-Edwards.  
*Lophotragus* Swinh., Proc. Zoöl. Soc., 1874, p. 453, pl. LIX.

#### 66. **Elaphodus cephalolophus** A. Milne-Edwards.

*Elaphodus cephalophus!* A. Milne-Edw., Nouv. Arch. Mus. Hist. Nat. Paris, 1871, p. 93.

#### CHINESE MUNTJAC.

1. Adult ♂ Exch. Ta-tsien-lou, China. Mus. Hist. Nat. Paris.

#### Genus 44. **Hydrelaphus.**

**Hydrelaphus** Lydekker, Deer of all Lands, 1898, p. 219. Type *Hydropotes inermis* Swinhoe.

*Hydropotes* Swinh., Proc. Zoöl. Soc., 1870, p. 90. (nec *Hydropota* Rondani, 1861, Diptera.)

#### 67. **Hydrelaphus inermis** (Swinhoe).

*Hydropotes inermis* Swinh., Proc. Zoöl. Soc., 1870, p. 89.

#### CHINESE WATER DEER.

1. Adult ♂ P. Vicinity of Shanghai, China. Rowland Ward & Co.



Genus 45. **Rangifer. Caribou.**

**Rangifer** Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 3, Tab. Gen., 1775. Type *Rangifer lapponicus* Frisch=*Cervus tarandus* Linnæus.

*Tarandus* Billberg, Syn. Faun. Scandinav., Mamm., 1, Conspec. A. D. 1828, p. 22.

**68. Rangifer tarandus** (Linnæus).

*Cervus tarandus* Linn., Syst. Nat., 1, 1766, p. 93.

*Cervus guettardi* Desm., Mamm., 11, 1822, p. 447.

*Cervus tarandus schottini* Sternb., Isis, 1828, p. 482.

*Rangifer tarandus* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 181.

## REINDEER.

1. Adult ♂ P. Norway. Ward's Nat. Scien. Establ., Rochester, N. Y.

**69. Rangifer caribou** (Gmelin).

*Cervus tarandus caribou* Gmel., Syst. Nat., 1, 1788, p. 177.

*Cervus tarandus* var. *β sylvestris* Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 250.

*Cervus hastalis* Agass., Sillim. Journ., 1847, p. 436.

*Rangifer caribou* Aud. & Bachm., Quad. N. Amer., III, 1853, p. III. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 35, pl. XIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 37. Zoöl. Ser.

## CARIBOU.

1. Adult ♂ P. Maine. Ward's Nat. Scien. Establ., Rochester, N. Y.

**70. Rangifer montanus** Seton-Thompson.

*Rangifer montanus* Seton-Thompson, Ottawa Nat., 1899, p. 129.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 36.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 38. Zoöl. Ser.

## MOUNTAIN CARIBOU.

1-2. Juv. ♂ P. 400 miles N. E. Edmonton, Brit. Columbia, Canada. C. F. Periolat.

3-4. Adult ♀ P. 400 miles N. E. Edmonton, Brit. Columbia, Canada. C. F. Periolat.

**71. Rangifer terrænovæ** Bangs.

*Rangifer terrænovæ* Bangs, Private Pub., Boston, 1896. Allen, Bull. Amer. Mus. Nat. Hist. N. Y., 1896, p. 233. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 36. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 38. Zoöl. Ser.

NEWFOUNDLAND CARIBOU.

- 1-3. Adult ♂ Pres. Newfoundland. S. V. Kennedy.
- 4-5. Adult ♀ Pres. Newfoundland. S. V. Kennedy.
6. Juv. ♀ Pres. Newfoundland. S. V. Kennedy.

**72. Rangifer stonii** Allen.

*Rangifer stonei* Allen, Bull. Amer. Mus. Nat. Hist. N. Y., 1901, p. 143. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Suppl., p. 483. Zoöl. Ser. *Id.* Pub. Field Columb. Mus., III, 1901, p. 59, pl. XIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 39. Zoöl. Ser.

STONE'S CARIBOU.

1. Adult ♂ P. Kenai Peninsula, Alaska. C. F. Periolat.

**73. Rangifer arcticus** (Richardson).

*Cervus tarandus* var. *a. arctica* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 241.

*Rangifer arcticus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 37. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 40. Zoöl. Ser.

BARREN GROUND CARIBOU.

1. Adult ♂ P. Northern Alaska. E. A. McIlhenny.
2. Adult ♀ P. Northern Alaska. E. A. McIlhenny.
3. Juv. — P. Northern Alaska. E. A. McIlhenny.

Genus 46. **Alce.**

**Alce** Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 3, Tab. Gen., 1775. H. Smith, Griff. Anim. Kingd., v, 1827, p. 303. Type *Cervus alces* Linnæus.

*Alces* Jard., Nat. Libr., Mamm., III, 1835, p. 125.

*Alcelaphus* Glog., Hand- u. Hilfsb. Naturg., 1841, p. 143. (nec Blainville, 1816.)

*Paralces* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1902, p. 160.

**74. Alce alces** (Linnæus).

*Cervus alces* Linn., Syst. Nat., I, 1758, p. 66.

*Alces americanus* Jard., Nat. Libr., Mamm., III, 1835, p. 125. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 38, pl. XIV. Zoöl. Ser.

*Alces machlis* Ogilby, Proc. Zool. Soc., 1836, p. 135.

*Alces palmatus* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 182.

*Cervus lobatus* Agass., Proc. Bost. Soc. Nat. Hist., 1846, p. 188.

*Alces muswa* Rich., Zool. Voy. 'Herald', Mamm., 1852, p. 66.

*Alce alces* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies,  
F. C. M. Pub., VI, 1905, p. 41. Zool. Ser.

#### MOOSE.

1. Adult ♂ P. Nova Scotia, Canada. Ward's Nat. Scien. Establ.,  
Rochester, N. Y.

2. Adult ♀ P. Nova Scotia, Canada. Ward's Nat. Scien. Establ.,  
Rochester, N. Y.

#### 75. *Alce gigas* (Miller).

*Alces gigas* Miller, Proc. Biol. Soc. Wash., XIII, 1899, p. 57. Elliot,  
Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 38. Zool. Ser.

*Alce gigas* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies,  
F. C. M. Pub., VI, 1905, p. 41. Zool. Ser.

#### ALASKAN MOOSE.

1-2. Adult ♂ P. Kenai Peninsula, Alaska. C. F. Periolat.

3-4. Adult ♀ P. Kenai Peninsula, Alaska. C. F. Periolat.

5. Juv. ♀ P. Kenai Peninsula, Alaska. C. F. Periolat.

#### Genus 47. *Cervus*.

*Cervus* Linn., Syst. Nat., I, 1758, p. 66. Type *Cervus elaphus*  
Linnaeus.

*Rusa* H. Smith, Griff. Anim. Kingd., v, 1827, p. 309.

*Axis* H. Smith, Griff. Anim. Kingd., v, 1827, p. 312.

*Hippelaphus* Bonap., Iconogr. Faun. Ital., I, 1836, p. 4. (nec  
Reichenb., 1835.)

*Hyelaphus* Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1846,  
p. 181.

*Pseudaxis* Gray, Cat. Ruminan. Mamm. Brit. Mus., 1872, p. 70.

*Elaphoceros*! Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss.  
Wien, LXVIII, 1874, Abth. I, p. 602.

#### Subgenus A. *Rusa*.

#### 76. *Cervus unicolor* Bechstein.

*Cervus unicolor* Bechst., in Penn. Allgem. Uebers. vierf. Thiere,  
I, 1799, p. 112.

*Cervus albicornis* Bechst., in Penn. Allgem. Uebers. vierf. Thiere,  
I, 1799, p. 112.



*Cervus niger* Blainv., Bull. Soc. Philom. Paris, 1816, p. 76.

*Cervus aristotelis* Cuv., Ossem. Foss., IV, 1825, p. 503.

*Cervus leschenaultii* Cuv., Ossem. Foss., IV, 1825, p. 506.

*Cervus heterocervus* Hodg., Journ. Asiat. Soc. Beng., x, 1841,  
p. 721.

SAMBAR.

1. Adult ♂ P. India. Ward's Nat. Scien. Establ., Rochester,  
N. Y.

Subgenus B. *Pseudaxis*.

**77. *Cervus hortulorum* Swinhoe.**

*Cervus pseudaxis* Gray, Proc. Zool. Soc., 1861, p. 236. (nec Eydoux  
& Souleyet.)

*Cervus hortulorum* Swinh., Proc. Zool. Soc., 1864, p. 169.

*Cervus dybowski* Taczanow., Proc. Zool. Soc., 1876, p. 123.

PEKIN SIKU.

1. Adult ♂ P. East Siberia. J. F. G. Umlauff.
2. Adult ♀ P. East Siberia. J. F. G. Umlauff.

**78. *Cervus culionensis* Elliot.**

*Cervus culionensis* Elliot, Pub. Field Columb. Mus., 1, 1896,  
pp. 68, 157.

CALAMIANES DEER.

1. Adult ♂ Type. P. Culion Island, Calamian Group, Philippine  
Archipelago. Menage Scientific Exped. Bourns & Worcester.
2. Adult ♀ Paratype. P. Culion Island, Calamian Group, Philip-  
pine Archipelago. Menage Scientific Exped. Bourns & Wor-  
cester.

**\*79. *Cervus steerii* Elliot.**

*Cervus steerii* Elliot, Pub. Field Columb. Mus., 1, 1896, p. 72.  
Zool. Ser.

STEERE'S PIGMY DEER.

1. Adult ♂ Type. P. Basilan Island, Philippine Archipelago. J.  
B. Steere.

**80. *Cervus canadensis* (Erxleben).**

*Cervus elaphus canadensis* Erxleb., Syst. Regn. Anim., 1777, p. 305.

\* Mr. Lydekker in the "Deer of all Lands" refers this form to *C. nigricans* Brooke. To settle this question satisfactorily it will be necessary to get together specimens of the two forms, as the best descriptions often mislead. From my recollection of the type of *C. steerii* I did not think it was the same as *C. nigricans* when I examined the type of that animal in London, and its diminutive size precludes it from any comparison with *C. philippinus* H. Smith.

*Cervus wapiti* Barton, Journ. Med. & Physc. Phil., III, 1808, p. 36.

*Cervus stronglyloceros!* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 251.

*Cervus canadensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 34, pl. XII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 41. Zoöl. Ser.

#### WAPITI, EASTERN ELK.

1. Adult ♂ P. — ? Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♀ P. — ? Ward's Nat. Scien. Establ., Rochester, N. Y.

3. Adult ♂ P. — ? C. E. Akeley.

4. Adult ♀ P. — ? C. E. Akeley.

5. Juv. — P. — ? C. E. Akeley.

#### a. *Cervus canadensis occidentalis* (Smith).

*Cervus occidentalis* H. Smith, Griff. Anim. Kingd., IV, 1827, p. 101.

*Cervus roosevelti* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 271.

*Cervus canadensis occidentalis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 34. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 42. Zoöl. Ser.

#### PACIFIC COAST WAPITI.

1-5. Adult ♂ Coll. Head waters of the Bogashiel River, Olympic Mountains, Clallam County, Washington. D. G. Elliot.

6-7. Adult ♀ P. Head waters of the Elwah River, Olympic Mountains, Clallam County, Washington. A. Baumann.

8. Juv. ♀ P. Head waters of the Elwah River, Olympic Mountains, Clallam County, Washington. C. C. Bowmann.

#### Subgenus C. *Dama*. Fallow Deer.

*Alce* Blumenb., Handb. Naturg., 6te Aufl., 1799, p. 697. (nec Frisch.)

*Dama* H. Smith, Griff. Anim. Kingd., v, 1827, p. 306.

*Megaceros!* Owen, Rep. Brit. Assoc., 1844, p. 237.

*Platyceros!* Wagn., Schreb. Säugth., Suppl., IV, 1854, p. 347.

*Dactyloceros!* Wagn., Schreb. Säugth., Suppl., v, 1855, p. 352.

*Palmatus* Giebel, Säugth., 1859, p. 351.

#### 81. *Cervus dama* Linnæus.

*Cervus dama* Linn., Syst. Nat., I, 1758, p. 67.

*Cervus platyceros!* Cuv., Tab. Élé. Hist. Nat., 1798, p. 160.

*Dama vulgaris* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 181.

#### FALLOW DEER.

1. Adult ♂ P. ———? Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♂ P. Vosges, France. Deyrolle Fils.

#### Genus 48. **Capreolus.**

**Capreolus** Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 3, Tab. Gen., 1775. Type "Das Rehe" = *Cervus capreolus* Linnæus.

#### 82. **Capreolus capreolus** (Linnæus).

*Cervus capreolus* Linn., Syst. Nat., 1, 1758, p. 68.

*Capreolus vulgaris* Fitzin., Beitr. Landesk. österreichs., 1, 1832, p. 317.

*Capreolus europæus* Glog., Hand- u. Hilfsb. Naturg., 1841, p. 140.

*Capreolus capræa* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 917.

#### ROEBUCK.

1. Adult ♂ P. Germany. Ward's Nat. Scien. Establ., Rochester, N. Y.

#### 83. **Capreolus pygargus** (Pallas).

*Cervus pygargus* Pallas, Reis. Russ. Reichs, 1, 1771, p. 453.

*Capreolus pygargus* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 176.

#### SIBERIAN ROE.

1. Adult ♂ Exch. Irkutsk, Central Asia. Mus. Hist. Nat. Paris.
2. Adult ♂ Summer coat. Exch. Irkutsk, Central Asia. Mus. Hist. Nat. Paris.
3. Adult ♀ Exch. Irkutsk, Central Asia. Mus. Hist. Nat. Paris.
4. Adult ♂ P. Amur District, East Siberia. J. F. G. Umlauff.
5. Adult ♀ P. Amur District, East Siberia. J. F. G. Umlauff.

#### Genus 49. **Odontocælus.**

**Odocoileus** (sic) Rafin., Atlantic Jour., 1, 1832, No. 3, p. 109, fig. Type *Odocoileus! speleus* Rafinesque = ? *Cervus dama americanus* Erxleben.

*Mazama* H. Smith, Griff. Anim. Kingd., v, 1827, p. 314. (nec Rafinesque, 1817.)



- Dorcelaphus* Glog., Hand - u. Hilfsb. Naturg., 1841, pp. xxxiii, 140.  
*Cariacus* Less., Nouv. Tabl. Règn. Anim., 1842, p. 173.  
*Blastocerus* Wagn., Schreb. Säugth., Suppl., iv, 1844, p. 366, Taf. ccli B, ccxlviii F.  
*Macrotis* Wagn., Schreb. Säugth., Suppl., iv, 1844, pp. 368-372. (nec Dejean, 1833, Coleopt.)  
*Reduncina* Wagn., Schreb. Säugth., Suppl., iv, 1844, p. 373, Taf. ccxlvii H.  
*Eucervus* Gray, Ann. Mag. Nat. Hist., 3d Ser., xviii, 1866, p. 338.  
*Otelaphus* Fitzing., Sitzungs. Math.-Nat. Cl. K. Akad. Wiss. Wien., LXVIII, Abth. I, 1874, pp. 347, 356.  
*Gymnotis* Fitzing., Sitzungs. Math.-Nat. Cl. K. Akad. Wiss. Wien., LXXVIII, Abth. I, 1879, p. 343.

Subgenus A. *Odontocælus*.

**84. *Odontocælus americanus* (Erxleben).**

- Cervus dama americanus* Erxl., Syst. Regn. Anim., 1777, p. 312.  
*Cervus virginianus* Bodd., Elench. Anim., I, 1785, p. 136.  
*Odocoileus! americanus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 40. Zoöl. Ser.  
*Odontocælus americanus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 43. Zoöl. Ser.

VIRGINIAN WHITE-TAILED DEER.

- 1-4. Adult ♂ P. Florence Co., Wisconsin. C. E. Akeley.  
 5-8. Adult ♀ P. Florence Co., Wisconsin. C. E. Akeley.  
 9-16. Juv. — P. Florence Co., Wisconsin. C. E. Akeley.  
 17. Adult ♂ Albino. Pres. Minnesota. E. E. Ayer.

a. *Odontocælus americanus couesi* (Rothrock MS.).

- Cervus mexicanus* Baird, N. Amer. Mamm., 1857, p. 653. (nec Gmel.)  
*Cervus virginianus* var. *couesi* Coues & Yarrow, in Wheeler's Geog. & Geol. Surv. W. 100th Merid., v, 1875, p. 72.  
*Odocoileus! americanus couesi* Elliot, Syn. N. Amer. Mamm., F. C. M. Pub., II, 1901, p. 40. Zoöl. Ser.  
*Odontocælus americanus couesi* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 70. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 45. Zoöl. Ser.

## COUES'S WHITE-TAILED DEER.

- 1-2. Adult ♂ P. Santa Cruz Mountains, State of Sonora, Mexico. W. W. Price.



FIG. VIII. ODONTOCÆLUS A. COUESI. COUES'S WHITE-TAILED DEER.

3. Juv. ♂ P. Santa Cruz Mountains, State of Sonora, Mexico. W. W. Price.

*b. Odontocælus americanus texensis* (Mearns).

*Dorcelaphus texanus!* Mearns, Proc. Biol. Soc. Wash., XII, 1898, p. 23.

*Odocoileus! americanus texensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 40. Zool. Ser.

*Odontocælus americanus texensis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 70, pls. xxix, xxx. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 45. Zool. Ser.

TEXAN WHITE-TAILED DEER.

- 1-6. Adult ♂ Pres. Casas Grandes, State of Chihuahua, Mexico. Kennedy & Stevenson.  
7. Adult ♀ Pres. Casas Grandes, State of Chihuahua, Mexico. Kennedy & Stevenson.

8. Juv. ♂ Pres. Casas Grandes, State of Chihuahua, Mexico. Kennedy & Stevenson.
9. Juv. ♀ Pres. Casas Grandes, State of Chihuahua, Mexico. Kennedy & Stevenson.

### 85. *Odontocælus battyi* Allen.

*Odocoileus! battyi* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1903, p. 591.

*Odontocælus battyi* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 71. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 45. Zoöl. Ser.

#### BATTY'S WHITE-TAILED DEER.

- 1-8. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
- 9-11. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
- 12-16. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 17-23. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 24-34. Adult ♂ Coll. Cuatro Cienegas, State of Coahuila, Mexico. Heller & Barber.
- 35-38. Adult ♀ Coll. Cuatro Cienegas, State of Coahuila, Mexico. Heller & Barber.

### 86. *Odontocælus rothschildi* (Thomas).

*Dama rothschildi* Thos., Novitat. Zool., IX, 1902, p. 136.

*Odontocælus rothschildi* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 72. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 46. Zoöl. Ser.

#### ROTHSCHILD'S WHITE-TAILED DEER.

1. Adult ♂ P. Coiba Island, Colombia. J. H. Batty.
- 2-3. Adult ♀ P. Coiba Island, Colombia. J. H. Batty.
- 4-5. Juv. ♀ P. Coiba Island, Colombia. J. H. Batty.

### 87. *Odontocælus columbianus* (Richardson).

*Cervus macrotis* var. *β columbiana* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 257.

*Odocoileus! columbianus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 41. Zoöl. Ser.

*Odontocælus columbianus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 48. Zoöl. Ser.



## COLUMBIAN BLACK-TAILED DEER.

1. Adult ♂ P. California. Ward's Nat. Scien. Establ., Rochester, N. Y.
- 2-3. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 4-5. Adult ♂ Coll. Agness, Curry Co., Oregon. E. Heller.

a. *Odontocælus columbianus sitkensis* Merriam.

*Odocoileus! columbianus sitkensis* Merr., Proc. Biol. Soc. Wash., XII, 1898, p. 100. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 42. Zoöl. Ser.

*Odontocælus columbianus sitkensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 48. Zoöl.

Ser.

## SITKA BLACK-TAILED DEER.

1. Adult ♀ Coll. Hot Springs, Sitka, Alaska. D. G. Elliot.
2. Juv. ♀ Coll. Hot Springs, Sitka, Alaska. D. G. Elliot.

88. *Odontocælus hemionus* (Rafinesque).

*Cervus hemionus* Rafin., Am. Month. Mag., I, 1817, p. 436.

*Cervus macrotis* Say, Narr. Long's Exped. Rocky Mts., II, 1823, p. 88.

*Odocoileus! hemionus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 42. Zoöl. Ser.

*Odontocælus hemionus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 76. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 48. Zoöl. Ser.

## MULE DEER.

1. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
2. Adult ♂ Coll. Long Cañon, Mt. Whitney, California. E. Heller.
3. Adult ♀ Coll. Long Cañon, Mt. Whitney, California. E. Heller.
4. Adult ♂ P. — ? C. E. Akeley.
5. Adult ♀ P. — ? C. E. Akeley.
6. Juv. ♀ P. — ? C. E. Akeley.

a. *Odontocælus hemionus californicus* (Eaton).

*Cervus macrotis* var. *californicus* Eaton, Amer. Nat., 1876, p. 464.

*Odocoileus! hemionus californicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 43. Zoöl. Ser.

*Odontocælus hemionus californicus* Elliot, Mamm. Middle Amer.

& W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 77. Zoöl. Ser.  
*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.  
 Pub., VI, 1905, p. 49. Zoöl. Ser.

CALIFORNIA MULE DEER.

- 1-2. Adult ♂ Coll. Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 3-4. Adult ♂ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
5. Adult ♀ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 6-8. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 9-12. Adult ♀ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
13. Adult ♂ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
14. Adult ♀ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

Subgenus B. *Blastocerus*.

89. *Odontocælus bezoarticus* (Linnæus).

*Cervus bezoarticus* Linn., Syst. Nat., I, 1758, p. 67.

*Cervus campestris* F. Cuv., Dict. Scien. Nat., VII, 1817, p. 484.

*Cervus leucogaster* Schreb., Säugth., V, 1817, p. 1127.

*Cervus azaræ* Wiegman., Isis, 1833, p. 954.

*Cervus comosus* Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 368.

PAMPAS DEER.

1. Adult ♂ P. Uruguay. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 50. *Hippocamelus*. **Brockets.**

*Hippocamelus* Leuckart, Dissert. Inaug. de *Equo bisulco* Molinae, 1816, p. 24. Type *Hippocamelus dubius* Leuckart = *Equus bisulcus* Molina.

*Mazama* Rafin., Amer. Month. Mag., I, 1817, p. 363.

*Subulo* H. Smith, Griff. Anim. Kingd., V, 1827, p. 318.

*Passalites* Glog., Hand - u. Hilfsb. Naturg., I, 1841, p. 140.

*Cervequus* Less., Nouv. Tabl. Règn. Anim., Mamm., 1842, p. 173.

*Subula* Less., Nouv. Tabl. Règn. Anim., Mamm., 1842, p. 174.

(nec Schum., 1817.)

- Coassus* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 174.  
*Furcifer* Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 384. Sundev., K. Oversigt. Vet.-Akad. Handl. Stockh., 1844 (1846), p. 183.  
*Anomolocera* Gray, Scientific Opinion, Lond., II, 1869, p. 385.  
*Xenelaphus* Gray, Proc. Zool. Soc., 1869, p. 498.  
*Homelaphus* Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 90.  
*Huamela* Gray, Ann. Mag. Nat. Hist., 4th Ser., x, 1872, p. 445.  
*Creagroceros*! Fitzin., Sitzungs. Math.-Nat. Cl. K. Akad. Wiss. Wien., LXVIII, Abth. I, 1874, p. 348.  
*Nanelaphus* Fitzin., Sitzungs. Math.-Nat. Cl. K. Akad. Wiss. Wien., LXVIII, Abth. I, 1874, p. 360.  
*Doryceros*! Fitzin., Sitzungs. Math.-Nat. Cl. K. Akad. Wiss. Wien., LXVIII, Abth. I, 1874, p. 360.

Subgenus A. **Mazama.**

**90. *Hippocamelus sartori* (Saussure).**

- Cervus sartorii* Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 252.  
*Mazama sartori* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 79, fig. xxxi, pl. xxxi. Zool. Ser.  
*Hippocamelus sartori* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 50. Zool. Ser.



FIG. IX. HIPPOCAMELUS SARTORI. SARTORI'S BROCKET.



## SARTORI'S BROCKET.

1. Adult ♂ Pres. Jalapa, State of Vera Cruz, Mexico. Kennedy & Stevenson.
2. Adult ♀ P. Mexico. Ward's Nat. Scien. Establ., Rochester, N. Y.

91. *Hippocamelus nemorivagus* (F. Cuvier).

*Cervus nemorivagus* F. Cuv., Dict. Scien. Nat., VII, 1817, p. 485.

## WOOD BROCKET.

1. Adult — P. Guairaca, Colombia, South America. Am. Mus. Nat. Hist. N. Y. H. H. Smith.

Subgenus B. *Xenelaphus*.92. *Hippocamelus antisiensis* (d'Orbigny).

*Cervus antisiensis* d'Orbig., Archiv. Mus. Paris, III, 1834, p. 91.

*Anomolocera huamel* Gray, Scient. Opinion, 1869, p. 384.

*Xenelaphus leucotis* Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 89.

*Furcifer antisiensis* Nehr., Sitzungsab. Gesc. Nat. Berl., 1895, p. 9.

## PERUVIAN GUEMAL.

1. Adult ♂ Exch. Ecuador, South America. British Museum.

Family VI. **Giraffidæ.**Genus 51. **Giraffa.**

**Giraffa** Briss., Regn. Anim., 1762, pp. 12, 37. Type *Giraffa giraffa* Brisson = *Cervus camelopardalis* Linnæus.

93. *Giraffa camelopardalis* (Linnæus).

*Cervus camelopardalis* Linn., Syst. Nat., I, 1758, p. 66.

## GIRAFFE.

1. Adult — P. Abyssinia. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ Pres. —? Ringling Bros.

Family VII. **Antilocapridæ. Prong-horn Antelope.**

Genus 52. **Antilocapra.**

**Antilocapra** Ord., Journ. de Phys., LXXXVII, 1818, p. 149. Type

*Antilope americana* Ord.

*Dicranocerus!* H. Smith, Griff. Anim. Kingd., IV, 1827, p. 169.

**94. Antilocapra americana (Ord).**

*Antilope americana* Ord, Guth. Geog., 2d. Am. ed., II, 1815, p. 292, desc. p. 308.

*Antilocapra americana* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 43, pl. xvi. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 82. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 51. Zool. Ser.

**PRONG-HORN.**

1. Adult ♂ P. Nebraska. Ward's Nat. Scien. Establ., Rochester, N. Y.

2-3 Juv. — P. No record. C. E. Akeley.

*a. Antilocapra americana mexicana* Merriam.

*Antilocapra americana mexicana* Merr., Proc. Biol. Soc. Wash., XIV, 1901, p. 31. Elliot, Mamm. Middle Amer. & W. Indies,



FIG. X. ANTILOCAPRA A. MEXICANA. MEXICAN PRONG-HORN.

F. C. M. Pub., IV, Pt. 1, 1904, p. 82, fig. xxv, pls. xxxii, xxxiii. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 51. Zool. Ser.

MEXICAN PRONG-HORN. *Berendo* in Mexico.

- 1-9. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.  
10-13. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.  
14. Juv. ♂ Coll. San Felipe, Gulf of California, Mexico. E. Heller.,

Family VIII. **Bovidae. Sheep, Oxen, etc.**

Subfamily I. **Bubalidinae.**

Genus 53. **Bubalis. Hartebeests.**

**Bubalis** Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, 2, Tab. Gen., 1775. Type *Antilope buselaphus* Pallas.



FIG. XI. **BUBALIS SWAYNII.** SWAYNE'S HARTEBEEST.



- Cerophorus* Blainv., Bull. Soc. Philom. Paris, 1816, p. 74. (Part.)  
*Alcelaphus* Blainv., Bull. Soc. Philom. Paris, 1816, p. 75.  
*Damalis* H. Smith, Griff. Anim. Kingd., iv, 1827, p. 343.  
*Acronotus* H. Smith, Griff. Anim. Kingd., iv, 1827, p. 346.  
*Bubalus* Ogilby, Proc. Zoöl. Soc., 1836, p. 139. (nec Frisch, 1775.)

**95. *Bubalis swaynii* Sclater.**

- Boselaphus caama* Sclat., Proc. Zoöl. Soc., 1884, p. 539. (nec G. Cuv.)  
*Alcelaphus caama* Giglioli, Ann. Mus. Genov., vi, 1888, p. 19. (nec G. Cuv.)  
*Bubalis swaynei* Sclat., Proc. Zoöl. Soc., 1892, p. 98, pl. v. Elliot, Pub. Field Columb. Mus., i, 1897, p. 112. Zoöl. Ser. Sclat. & Thos., Book Antel., i, 1894-1900, p. 21, pl. II.

**SWAYNE'S HARTEBEEST. *Sig* in Somali.**

- 1-4. Adult ♂ Coll. Toyo Plain, Somaliland, East Africa. D. G. Elliot.  
 5. Adult ♂ Coll. Silo Plain, Somaliland, East Africa. D. G. Elliot.  
 6-10. Adult ♀ Coll. Toyo Plain, Somaliland, East Africa. D. G. Elliot.  
 11. Juv. ♀ Coll. Toyo Plain, Somaliland, East Africa. D. G. Elliot.

**96. *Bubalis cokii* (Günther).**

- Alcelaphus cokei* Günth., Ann. Mag. Nat. Hist., xiv, 1884, p. 426.  
*Alcelaphus lichtensteini* Pagenst., J. B. Mus. Hamb., II, 1884, p. 40. (nec Peters.)  
*Alcelaphus cookei* Lyd., Field, LXXVII, 1891, p. 858, fig.  
*Bubalis cokei* Sclat. & Thos., Book Antel., i, 1894-1900, p. 27, pl. III.

**COKE'S HARTEBEEST. *Kongoni* in Swahili.**

1. Adult ♂ P. Kilimanjaro District, East Africa. F. J. Jackson.

**97. *Bubalis caama* (G. Cuvier).**

- Antilope dorcas* Thunb., Mém. Acad. St. Pétersb., III, 1811, p. 316. (nec Pallas.)  
*Antilope caama* G. Cuv., Dict. Scien. Nat., II, 1816, p. 242.  
*Cerophorus caama* Blainv., Bull. Soc. Philom. Paris, 1816, p. 75.  
*Damalis caama* H. Smith, Griff. Anim. Kingd. iv, 1827, p. 348.  
*Acronotus caama* A. Smith, S. Afr. Quart. Journ., II, 1834, p. 221.  
*Bubalus caama* A. Smith, Ill. Zoöl. S. Afr., 1840, pl. xxx.  
*Bubalis caama* Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1844, p. 208. Sclat. & Thos., Book Antel., i, 1894-1900, p. 33, pl. IV.

CAPE HARTEBEEST. *Khama* of Bechuanas; *Ingama*, Makalaka; *Inhluzele*, Zulu.

1. Adult ♂ P. South Africa. E. Gerrard & Sons.

**98. *Bubalis jacksoni* Thomas.**

*Antilope caama* Schweinf., Herz. v. Afr., 1, 1873, p. 212. (nec G. Cuv.)

*Acronotus caama* Heugl., Reis. N. O.-Afr., 11, 1877, p. 123, pl. (nec G. Cuv.)

*Bubalis jacksoni* Thos., Ann. Mag. Nat. Hist., 6th Ser., 1X, 1892, p. 386. Sclat. & Thos., Book Antel., 1, 1894-1900, p. 39.

*Alcelaphus jacksoni* Lugard, E. Afr., 1, 1893, p. 532.

JACKSON'S HARTEBEEST. *Ngazi*, in Uganda; *Alwakwong*, along White Nile.

1. Adult ♀ P. Mau Plateau, Masailand, Brit. E. Africa. F. J. Jackson.

**99. *Bubalis lichtensteini* (Peters).**

*Antilope lichtensteini* Peters, Mitth. Ges. Nat. Fr., 1849. *Id.* Säugeth. Mossamb., 1, 1852, p. 190, pls. XLIII, XLIV.

*Boselaphus lichtensteini* Kirk, Proc. Zool. Soc., 1864, p. 660.

*Alcelaphus lichtensteini* Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 44.

*Alcelaphus caama* Noack, Zool. Jahrb., 11, 1887, p. 208.

*Bubalis leucoprymnus* Matsch., Sitz. Ges. Nat. Freunde Berlin, 1892, p. 137.

*Bubalis lichtensteini* Sclat. & Thos., Book Antel., 1, 1894-1900, p. 45, pl. v.

LICHTENSTEIN'S HARTEBEEST.

1. Adult ♂ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.

2. Adult ♀ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.

Genus 54. **Damaliscus.**

**Damaliscus** Sclat. & Thos., Book Antel., 1, Pt. 1, 1894, pp. 3, 51-91, figs. 7-12, pls. VI-X. Type *Antilope pygargus* Pallas.

*Damalis* Gray, Ann. Mag. Nat. Hist., 1st Ser., XVIII, 1846, p. 233. (nec H. Smith, 1827.)

**100. *Damaliscus lunatus* (Burchell).**

*Antilope lunata* Burch., Travels, 11, 1824, p. 334.

*Damalis lunata* H. Smith, Griff. Anim. Kingd., IV, 1827, p. 352. pl.

*Damaliscus lunatus* Sclat. & Thos., Book Antel., i, 1894-1900,  
p. 85, pl. x.

## SASSABY.

1. Adult ♂ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.
2. Adult ♀ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.
3. Adult ♂ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.
4. Adult ♀ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.



FIG. XII. DAMALISCUS PYGARGUS. BONTBOK.



**101. *Damaliscus pygargus* (Pallas).**

*Antilope dorcas* Pall., Miscell. Zool., 1766, p. 6. (nec Linn.)

*Antilope pygargus* Pall., Spec. Zool., 1, 1767, p. 10.

*Antilope grisea* Bodd., Elench. Anim., 1785, p. 139.

*Cemas pygargus* Oken, Lehrb. Naturg., III, Pt. 2, 1816, p. 738.

*Gazella pygarga* Harris, Wild Anim. S. Afr., 1840, pl. xvii.

*Damaliscus pygargus* Sclat. & Thos., Book Antel., 1, 1894-1900, p. 73, pl. viii.

**BONTEBOK.**

1. Adult ♂ Pres. Cape Agulhas, S. Africa. J. D. Albertyn.

2. Adult ♀ Pres. Cape Agulhas, S. Africa. J. D. Albertyn.

**102. *Damaliscus albifrons* (Burchell).**

*Antilope albifrons* Burch., Travels, II, 1824, p. 335.

*Damalis albifrons* Gray, Ann. Mag. Nat. Hist., 1st. Ser., xviii, 1846, p. 233.

*Damaliscus albifrons* Sclat. & Thos., Book Antel., 1, 1894-1900, p. 79, pl. ix.

**BLESSBOK.**

1. Adult ♂ Pres. Orange Free State, S. Africa. S. African Museum, Cape Town, S. Africa.

**103. *Damaliscus jimela* (Matschie).**

*Damalis senegalensis* Sclat., Proc. Zool. Soc., 1886, p. 176. (nec Childr., nec Heugl.)

*Damalis jimela* Matsch., Sitzungsab. Ges. Nat. Freund. Berl., 1892, p. 135.

*Alcelaphus senegalensis* Lugard, E. Afr., 1, 1893, p. 532, pl. 2.

*Damaliscus jimela* Sclat. & Thos., Book Antel., 1, 1894-1900, p. 67.

**TOPI.**

1. Adult ♂ P. British East Africa. Rowland Ward & Co.

**Genus 55. *Connochaetes*.**

**Connochaetes** Licht., Mag. Ges. Naturf. Freund. Berl., VI, 1814, p. 152. Type *Antilope gnu* Gmelin.

*Cemas* Oken, Lehrb. Naturg., Zool., III, Pt. II, 1816, p. 727.

*Catablepas* Gray, Lond. Med. Repos., xv, 1821, p. 307.

*Catablepas* H. Smith, Griff. Anim. Kingd., IV, 1827, p. 366.

*Gorgon* Gray, Knowsl. Menag., 1850, p. 20, pl. xix, fig. 2.

*Butragus* Blyth apud Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 43.

**104. *Connochætes taurinus* (Burchell).**

*Antilope taurina* Burch., Travels, II, 1824, p. 278.

*Catoblepas taurinus* H. Smith, Griff. Anim. Kingd., IV, 1827, p. 369.

*Catoblepas gorgon* H. Smith, Griff. Anim. Kingd., IV, 1827, p. 369.

*Antilope gorgon* Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 474.

*Connochætes gorgon* Gray, Cat. Ungul. Brit. Mus., 1852, p. 121.

*Butragus corniculatus* Blyth apud Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 43.

*Connochætes taurinus* Sclat. & Thos., Book Antel., I, 1894-1900, p. 95, pl. XI.

**BRINDLED GNU.**

1. Adult ♂ P. East Africa. E. Gerrard & Sons.
2. Adult ♀ P. East Africa. Rowland Ward & Co.
3. Adult ♂ Pres. South Africa. Ringling Bros.

**105. *Connochætes albojubatus* (Thomas).**

*Connochætes taurinus albojubatus* Thos., Ann. Mag. Nat. Hist., 6th Ser., IX, 1892, p. 388.

*Connochætes taurina* Lugard, E. Afr., I, 1893, p. 540, pl.



FIG. XIII. CONNOCHÆTES GNU. WHITE-TAILED GNU.

*Connochætes albojubatus* Sclat. & Thos., Book Antel., I, 1894-1900, p. 105.

WHITE-BEARDED GNU.

1. Adult ♀ P. Kilimanjaro District, E. Africa. F. J. Jackson.

106. *Connochætes gnu* (Zimmermann).

*Bos gnou!* Zimm., Spec. Zool. Geogr., 1777, p. 372.

*Antilope gnou!* Zimm., Geogr. Gesch., II, 1780, p. 102.

*Antilope capensis* Gatt., Brev. Zool., I, 1780, p. 80.

*Antilope gnu* Gmel., Syst. Nat., I, 1788, p. 189.

*Cemas gnu* Oken, Lehrb. Naturg., III, Pt. II, 1816, p. 728.

*Catoblepas gnu* H. Smith, Griff. Anim. Kingd., IV, 1827, p. 367.

*Catoblepas operculatus* Brookes, Cat. Mus., 1828, p. 64.

*Connochætes gnu* Sclat. & Thos., Book Antel., I, 1894-1900, p. 111, pl. XII.

WHITE-TAILED GNU.

1. Adult ♂ P. South Africa. Rowland Ward & Co.

2. Adult ♀ P. South Africa. Rowland Ward & Co.

3. Juv. ♀ P. Orange River Colony. E. Gerrard & Sons.

Subfamily II. *Cephalolophinæ*.

Genus 56. *Cephalolophus*. **Duikers.**

*Cephalophus* (sic) H. Smith, Griff. Anim. Kingd., v, 1827, p. 344.

Type *Antilope silvicultrix* Afzelius.

*Cerophorus* Blainv., Bull. Soc. Philom. Paris, 1816, p. 74. (Part.)

*Sylvicapra* Ogilby, Proc. Zool. Soc., 1836, p. 138.

*Grimmia* Laurill., d'Orbig. Dict. Univ. Hist. Nat., I, 1841, p. 623.

*Cephalophorus* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 162.

*Guevei* Gray, Cat. Ungul. Brit. Mus., 1852, p. 86.

*Terpone* Gray, Proc. Zool. Soc., 1871, p. 592.

*Potamotragus* Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 25.

107. *Cephalolophus dorsalis* Gray.

*Cephalophus! dorsalis* Gray, Ann. Mag. Nat. Hist., 1st Ser., XVIII, 1846, p. 165. Sclat. & Thos., Book Antel., I, 1894-1900, p.

155, pl. XIX, fig. 2.

*Cephalophus! badius* Gray, Cat. Ungul. Brit. Mus., 1852, p. 84.

*Antilope (Cephalolophus) dorsalis* Wagn., Schreb. Säugth., Suppl.,

v, 1855, p. 424.

*Cephalophus! breviceps* Gray, Proc. Zool. Soc., 1866, p. 202, pl. xx.



BAY DUIKER.

1. Adult ♂ P. West Africa. T. W. Franklin.

**108. Cephalolophus melanorheus** Gray.

*Cephalolophus! melanorheus* Gray, Ann. Mag. Nat. Hist., 1st Ser., xviii, 1846, p. 167. Sclat. & Thos., Book Antel., 1, 1894-1900, p. 185.

*Antilope (Cephalolophus) melanorheus* Wagn., Schreb. Säugth., Suppl., v, 1855, p. 428.

*Cephalolophus! anchietæ* Bocage, Proc. Zool. Soc., 1878, p. 743.

*Cephalolophus! maxwelli* Noack, Zool. Jahrb.-Abth. f. Syst., iv, 1889, p. 121.

BLACK-RUMPED DUIKER.

1. Adult ♂ Exch. Mayumba, Congo, West Africa. Mus. Hist. Nat. Paris.

2. Adult ♀ Exch. Bangui, Congo, West Africa. Mus. Hist. Nat. Paris.

*a. Cephalolophus melanorheus sundevalli* (Fitzinger).

*Sylvicapra pygmæa* var. Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1845, p. 321.

*Cephalolophus! pygmæus sundevalli* Fitzin., Sitzungsber. Math.-Nat. Cl. K. Akad. Wiss. Wien, lxx, Pt. 1, 1869, p. 166.

*Cephalolophus! melanorheus sundevalli* Sclat. & Thos., Book Antel., 1, 1894-1900, p. 185.

SUNDEVALL'S BLACK-RUMPED DUIKER.

1. Adult ♂ P. West Africa. T. H. Franklin.

**109. Cephalolophus coronatus** Gray.

*Antilope grimmia* Pall., Misc. Zool., 1766, p. 12. (nec *Capra grimmia* Linn.)

*Cerophorus (Cervicapra) grimmia* Blainv., Bull. Soc. Philom. Paris, 1816, p. 75. (nec. Linn.)

*Cephalolophus! coronatus* Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 266. Sclat. & Thos., Book Antel., 1, 1894-1900, p. 195, pl. xxii, fig. 2.

*Sylvicapra coronata* Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1846, p. 191.

*Grimmia grimmia* Jent., Cat. Ost. Leyd. Mus., 1887, p. 138.

CROWNED DUIKER.

1. Adult ♂ P. Kalenque, West Africa, 2,500 feet altitude. E. Gerrard & Sons.

**110. Cephalolophus abyssinicus** Thomas.

*Antilope madoqua* Rüpp., Neue Wirbelth. Abyss., Säugeth., 1830, p. 22, pl. vii, fig. 2. (nec H. Smith.)

*Cephalophus! madoqua* Gray, Knowsl. Menag., 1850, p. 9. (nec H. Smith.)

*Cephalophus! abyssinicus* Thos., Proc. Zool. Soc., 1892, p. 427. Sclat. & Thos., Book Antel., 1, 1894-1900, p. 199, pl. xxii, fig. 1.

ABYSSINIAN DUIKER. *Madoqua*, in Abyssinia; *Midáqua*, in Amharic.

1. Adult ♂ P. 35 miles west of Gondar, Abyssinia. P. H. G. Powell-Cotton.

2. Adult ♀ P. 35 miles west of Gondar, Abyssinia, P. H. G. Powell-Cotton.

# 111. *Cephalolophus grimmia* (Linnæus).

*Capra grimmia* Linn., Syst. Nat., 1, 1758, p. 70.

*Moschus grimmia* Linn., Syst. Nat., 1, 1766, p. 92.

*Antilope mergens* Desm., Nouv. Dict. Hist. Nat., 11, 1816, p. 193.

*Antilope (Cephalophus!) platous* H. Smith, Griff. Anim. Kingd., 1V, 1827, p. 260.

*Antilope (Cephalophus!) burchelli* H. Smith, Griff. Anim. Kingd., 1V, 1827, p. 262.

*Antilope (Cephalophus!) ptoox* H. Smith, Griff. Anim. Kingd., 1V, 1827, p. 265.

*Cephalophus! mergens* A. Smith, S. Afr. Quart. Journ., 1834, p. 215.

*Cephalophus! platyotis* Less., Hist. Nat. Mamm., Compl. Buff., x, 1836, p. 293.

*Cephalophus! campbelliæ* Gray, Ann. Mag. Nat. Hist., 1st Ser., xviii, 1846, p. 164.

*Antilope altifrons & ocularis* Peters, Säugeth. Mozamb., 1852, p. 184, pls. xxxvii, xxxviii, xxxix, xli, fig. 1, xlii, fig. 1.

*Grimmia nictitans, irrorata, splendidula, burchelli & campbelliæ* Gray, Proc. Zool. Soc., 1871, pp. 589, 592, fig. 1.

*Cephalophus! grimmia flavescens* Lorenz, Ann. K.-K. Nat. Hofm. Wien., ix, 1895, p. 60.

*Cephalophus! grimmii* Sclat. & Thos., Book Antel., 1, 1894-1900, p. 203, pl. xxiii.

COMMON DUIKER.

1. Adult ♂ P. Cape Colony, S. Africa. Rowland Ward & Co.

# 112. *Cephalolophus monticola* (Thunberg).

*Antilope monticola* Thunb., Resa, 11, 1789, p. 66.

*Cephalophus! monticola* Sclat. & Thos., Book Antel., 1, 1894-1900, p. 191, pl. xxi, fig. 1.

BLUE DUIKER.

1. Adult ♂ P. Zululand, South Africa. Rowland Ward & Co.

Subfamily III. **Neotraginæ.**Genus 57. **Oreotragus.**

**Oreotragus** A. Smith, S. Afr. Quart. Journ., II, 1834, p. 212. Type

*Antilope oreotragus* Zimmermann.

*Oritragus* Glog., Hand-u. Hilfsb. Naturg., I, 1841, p. 154.

**113. Oreotragus oreotragus** (Zimmermann).

*Antilope oreotragus* Zimm., Geogr. Gesch., III, 1783, p. 369.

*Antilope saltatrix* Bodd., Elench. Anim., 1785, p. 141.

*Antilope (Gazella) oreotragus* Licht., Mag. Naturf. Freund. Berl., VI, 1814, p. 175.

*Cemas oreotragus* Oken, Lehrb. Nat., III, Pt. 2, 1816, p. 743.

*Antilope (Ourebia) oreotragus* Laurill., Dict. Univ. Hist. Nat., I, 1839, p. 622.

*Calotragus saltatrix* Temm., Esquis. Zool. Guin., 1853, p. 191.

*Antilope klippspringer* Desm., Nouv. Dict. Hist. Nat., XII, 1804, p. 390.

*Antilope saltatrixoides* Wagn., Schreb. Säugth., Suppl., v, 1855, p. 412.

*Oreotragus saltator* Sclat. & Thos., Book Antel., II, 1896-1897, p. 5, pl. xxv.

**KLIPSPRINGER.** *Alikut*, in Somali; *Sasa*, in Amharic.

1. Adult ♂ Exch. East Africa. British Museum.

2. Adult ♀ Exch. Sorgoti, Brit. Central Africa. Lord Delamere.

Genus 58. **Ourebia.**

**Ourebia** Laurill., Dict. Univ. Hist. Nat., I, 1841, p. 622. Type

*Antilope ourebi* Zimmermann.

*Scopophorus* Gray, Ann. Mag. Nat. Hist., 1st Ser., XVIII, 1846, p. 232.

**114. Ourebia montana** (Cretzschmar).

*Antilope montana* Cretzschm., Atl. Rupp. Reise, Säugth., 1826, p. 11, pl. III.

*Redunca montana* A. Smith, S. Afr. Quart. Journ., II, 1834, p. 211.

*Tragelaphus montanus* Rupp., Verz. Senck. Mus., 1842, p. 37.

*Calotragus montanus* Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1844, p. 193.



- Scopophorus montanus* Gray, Ann. Mag. Nat. Hist., 1st Ser., XVIII, 1846, p. 232.  
*Nanotragus montanus* Brooke, Proc. Zoöl. Soc., 1872, p. 642.  
*Antilope madoqua* Schweinf., Herz. von Afr., I, 1874, p. 266, fig.  
*Ourebia montana* Sclat. & Thos., Book Antel., II, 1896-1897, p. 25.
- ABYSSINIAN ORIBI. *Fiebo*, in Amharic.
1. Adult ♂ P. 40 miles south of Lake Tana, Abyssinia. E. Gerrard & Sons.
  2. Adult ♀ P. 40 miles south of Lake Tana, Abyssinia. E. Gerrard & Sons.

**115. Ourebia haggardi** (Thomas).

- Nanotragus hastatus* Jackson, Badmint. Big Game Shooting, I, 1894, p. 285. (nec Peters.)  
*Neotragus haggardi* Thos., Ann. Mag. Nat. Hist., 6th Ser., xv, 1895, p. 187.  
*Ourebia haggardi* Sclat. & Thos., Book Antel., II, 1896-1897, p. 29.
- HAGGARD'S ORIBI. *Taya*, in Swahili.
1. Adult ♂ P. Mau Plateau, Masailand, E. Africa. F. J. Jackson.
  2. Adult ♀ P. Mau Plateau, Masailand, E. Africa. F. J. Jackson.

Genus 59. **Rhaphiceras.**

- Raphicerus**! H. Smith, Griff. Anim. Kingd., v, 1827, p. 342. Type *Antilope campestris* Thunberg.

**116. \*Rhaphiceras campestris** (Thunberg).

- Capra grimmia* Thunb., Resa, II, 1789, p. 8. (nec Linn.)  
*Antilope campestris* Thunb., Mém. Acad. Sci. St. Pétersb., III, 1811, p. 313.  
*Raphicerus*! *campestris* Sclat. & Thos., Book Antel., II, 1896-97, p. 41, pl. XXVII, fig. 1.
- STEINBOK.
1. Adult ♂ P. British East Africa. Rowland Ward & Co.

Genus 60. **Madoqua.**

- Madoqua** Ogilby, Proc. Zoöl. Soc., 1837, p. 137. Type *Cerophorus saltiana* Blainville.

\* Species not yet represented in the collection. Specimen ordered from London.

*Neotragus* H. Smith, Griff. Cuv., Anim. Kingd., iv, 1827, p. 269;  
v, p. 349. Sundev., K. Sven. Vet.-Akad. Handl. Stockh.,  
1846, p. 191.

**117. *Madoqua saltiana* (Blainville).**

*Cerophorus (Cervicapra) saltiana* Blainv., Bull. Soc. Philom.  
Paris, 1816, p. 75.

*Antilope saltiana* Desm., Nouv. Dict. Hist. Nat., ii, 1816, p. 192.

*Antilope hemprichiana* Ehr., Hempr. & Ehrenb. Symb. Physc.,  
1833, text to pl. vii.

*Neotragus saltiana* Jard., Nat. Libr., Mamm., iii, Pt. 1, 1835,  
p. 229, pl. xxxiii.

*Madoqua saltiana* Ogilby, Proc. Zoöl. Soc., 1837, p. 137. Sclat.  
& Thos., Book Antel., ii, 1896-1897, p. 69, pl. xxx.

*Calotragus saltianus* Temm., Esquiss. Zool., 1853, p. 192.

SALT'S DIK-DIK. *Beni Israel* at Massowa.

1. Adult ♂ P. Eastern Abyssinia. T. H. Franklin.

**118. *Madoqua swaynii* Thomas.**

*Neotragus saltianus* Swayne, Proc. Zoöl. Soc., 1892, p. 307. (nec  
Blainv.)

*Madoqua swaynei* Thos., Proc. Zoöl. Soc., 1894, p. 328. Elliot,  
Pub. Field Columb. Mus., i, 1897, p. 113. Zoöl. Ser. Sclat.  
& Thos., Book Antel., ii, 1896-1897, p. 73.

SWAYNE'S DIK-DIK. *Guyu, Sakáro*, in Somali.

1-2. Adult ♂ Coll. Betteran, Somaliland, Brit. E. Africa. D. G.  
Elliot.

3-4. Adult ♂ Coll. Deregodleh, Somaliland, Brit. E. Africa.  
D. G. Elliot.

5-6. Adult ♂ Coll. Laferug, Somaliland, Brit. E. Africa. D. G.  
Elliot.

7. Adult ♀ Coll. Toyo Plain, Somaliland, Brit. E. Africa.  
D. G. Elliot.

8. Juv. ♀ Coll. Toyo Plain, Somaliland, Brit. E. Africa.  
D. G. Elliot.

9. Juv. ♀ Coll. Bodeleh, Somaliland, Brit. E. Africa. D. G.  
Elliot.

**119. *Madoqua phillipsi* Thomas.**

*Neotragus saltianus* Blyth, Jour. Asiat. Soc. Beng., xxiv, p. 297.  
(nec Blainv.)

*Madoqua phillipsi* Thos., Proc. Zoöl. Soc., 1894, p. 327. Elliot,  
Pub. Field Columb. Mus., i, 1897, p. 115. Zoöl. Ser. Sclat.  
& Thos., Book Antel., ii, 1896-1897, p. 75, pl. xxxi, fig. 2.

PHILLIPS'S DIK-DIK. *Gol-Ass, Sakaro*, in Somali.

1. Adult ♀ Coll. Adadleh, Somaliland, Brit. E. Africa. D. G. Elliot.
2. Adult ♂ Coll. Anouf Prairie, Somaliland, Brit. E. Africa. D. G. Elliot.
3. Adult ♂ Coll. Marodijeh, Somaliland, Brit. E. Africa. D. G. Elliot.
4. Adult ♂ Coll. Bodeleh, Somaliland, Brit. E. Africa. D. G. Elliot.
- 5-6. Adult ♀ Coll. Bodeleh, Somaliland, Brit. E. Africa. D. G. Elliot.
7. Juv. ♀ Coll. Bodeleh, Somaliland, Brit. E. Africa. D. G. Elliot.
8. Adult ♂ Coll. Dagahbur Ogaden, East Africa. D. G. Elliot.
9. Adult ♀ Coll. Dagahbur Ogaden, East Africa. D. G. Elliot.

**120. *Madoqua damarensis* (Günther).**

*Neotragus damarensis* Günth., Proc. Zool. Soc., 1880, p. 20, fig.

*Cephalophus! hemprichianus* Jent., Notes Leyd. Mus., ix, 1887, p. 172.

*Madoqua damarensis* Sclat. & Thos., Book Antel., II, 1896-1897, p. 79.

## DAMARAN DIK-DIK.

1. Adult ♂ P. Angola, Africa. G. L. Bates.
2. Adult ♀ P. Angola, Africa. G. L. Bates.

**121. *Madoqua kirki* (Günther).**

*Neotragus kirki* Günth., Proc. Zool. Soc., 1880, p. 17.

*Neotragus damarensis* True, Proc. U. S. Nat. Mus., xv, 1892, p. 477, pl. LXXX. (nec Günth.)

*Madoqua kirki* Thos., Proc. Zool. Soc., 1894, p. 328. Sclat. & Thos., Book Antel., II, 1896-1897, p. 83.

## KIRK'S DIK-DIK.

1. Adult ♂ P. Kilimanjaro District, East Africa. F. J. Jackson.
2. Adult ♀ P. Kilimanjaro District, East Africa. F. J. Jackson.

**122. *Madoqua guntheri* Thomas.**

*Neotragus kirki* Sclat., Proc. Zool. Soc., 1886, p. 504. (nec Günth.)

*Madoqua guntheri* Thos., Proc. Zool. Soc., 1894, p. 324. Elliot, Pub. Field Columb. Mus., I, 1897, p. 117. Zool. Ser. Sclat. & Thos., Book Antel., II, 1896-1897, p. 89, pl. xxxi, fig. 1.



GÜNTHER'S DIK-DIK. *Sakkaro, Gussuli*, in Ogaden.

1. Adult ♂ Coll. Dagahbur, Ogaden, E. Africa. D. G. Elliot.

**123. \*Madoqua cavendishi** Thomas.

*Madoqua cavendishi* Thos., Proc. Zool. Soc., 1898, p. 278.

CAVENDISH'S DIK-DIK.

1. Adult ♀ P. British East Africa. Rowland Ward & Co.

Subfamily IV. **Cervicaprinæ.**

Genus 61. **Cobus.**

**Kobus!** A. SMITH, Ill. Zool. S. Afr., 1840, pl. xxviii. Type *Antilope ellipsiprymnus* Ogilby.

*Kobus!* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 159.

*Adenota* Gray, List Osteol. Spec. Brit. Mus., 1847, p. 146.

*Heleotragus* Kirk, Proc. Zool. Soc., 1864, p. 657.

*Hydrotragus* Fitzin., Sitzungsab. Math.-Nat. C. K. Akad. Wiss. Wien, LIX, Pt. I, 1866, p. 175.

*Onotragus* Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 17.

**124. Cobus ellipsiprymnus** (Ogilby).

*Antilope ellipsiprymnus* Ogilby, Proc. Zool. Soc., 1833, p. 47.

*Aigocerus ellipsiprymnus* Harris, Wild Anim. S. Afr., 1840, p. 71, pl. XIV.

*Kobus! ellipsiprymnus* A. Smith, Ill. Zool. S. Afr., Mamm., 1840, pls. xxviii, xxix.

*Heleotragus ellipsiprymnus* Kirk, Proc. Zool. Soc., 1864, p. 658.

*Cobus ellipsiprymnus* Sclat. & Thos., Book Antel., II, 1896-1897, p. 97, pl. xxxii.

COMMON WATERBUCK. *Balango*, in Somali, *Kuro*, in Swahili.

1. Adult ♂ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.

2. Adult ♀ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.

3. Adult ♀ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.

**125. Cobus unctuosus** (Laurillard).

*Antilope unctuosus* Laurill., Dict. Univ. Hist. Nat., I, 1817, p. 622.

*Cervus sing-sing* Bennett, Rep. Counc. Zool. Soc., 1832, p. 5. (nomen nudum.)

*Antilope koba* Ogilby, Penny Encycl., I, 1834, p. 79. (nec Erxleben.)

\*Not yet in collection, specimen ordered from London.

*Kobus! sing-sing* Gray, Ann. Mag. Nat. Hist., 1st Ser., xviii, 1846, p. 232.

*Antilope defassa* var. *senegalensis* Wagn., Schreb. Säugth., Suppl., v, 1855, p. 435.

*Cobus defassa* Sclat., Proc. Zool. Soc., 1892, p. 471.

*Cobus unctuosus* Sclat., Proc. Zool. Soc., 1893, p. 727. Sclat. & Thos., Book Antel., II, 1896-1897, p. 105, pls. xxxiii, xxxiii.

THE SING-SING.

i. Adult ♂ P. West Africa. Rowland Ward & Co.



FIG. XIV. COBUS MARIA. MRS. GRAY'S WATERBUCK.

**126. *Cobus penricei* Rothschild.**

*Cobus penricei* Rothschild., Novitat. Zool., II, 1895, p. 32, pl. IV, fig. 1. Sclat. & Thos., Book Antel., II, 1896-1897, p. 113, pl. XXXV.

PENRICE'S WATERBUCK. *Kringhart*, in Benguela.

1. Adult ♂ P. Chipungo River, Angola, W. Africa. G. W. Penrice.
2. Adult ♀ P. Chipungo River, Angola, W. Africa. G. W. Penrice.

**127. *Cobus maria* Gray.**

*Kobus! maria* Gray, Ann. Mag. Nat. Hist., 3rd Ser., IV, 1859, p. 296.

*Kobus! megaceros!* Marno, Reis. im Geb. d. blauen u. weissen Nil, 1874, p. 387.

*Cobus maria* Sclat. & Thos., Book Antel., II, 1896-1897, p. 121, pl. XXXVII.

MRS. GRAY'S WATERBUCK.

1. Adult ♂ P. White Nile, Africa. E. Gerrard & Sons.

**128. *Cobus vardonii* (Livingstone).**

*Antelope vardonii* Livingst., Miss. Travels, 1857, p. 256, pl. p. 71.

*Heleotragus vardonii* Kirk, Proc. Zoöl. Soc., 1864, p. 657.

*Cobus vardonii* Selous, Proc. Zoöl. Soc., 1881, p. 759, pl. LXV.

Sclat. & Thos., Book Antel., II, 1896-1897, p. 141, pl. XLI.

*Eleotragus vardonii* Huet, Bull. Soc. Acclim., 1887, p. 48.

*Adenota vardonii* Matschie, Säugeth. Deutsch. Ost-Afr., 1895, p. 126.

THE POKU.

1. Adult ♂ P. Lake Mweru, Brit. Centr. Africa. Rowland Ward & Co.
2. Adult ♀ P. Barotseland, Rhodesia, Brit. E. Africa. R. T. Coryndon.

**129. *Cobus leucotis* (Lichtenstein & Peters).**

*Antelope leucotis* Licht. & Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1853, p. 164.

*Cobus leucotis* Sclat. & Thos., Book Antel., II, 1896-1897, p. 127, pl. XXXVIII.

WHITE-EARED KOB.

1. Adult ♂ P. White Nile, Central Africa. Rowland Ward & Co.



Genus 62. **Cervicapra.**

**Cervicapra** Sparrm., K. Sven. Vet.-Akad. Handl. Stockh., 1, 1780,

p. 275. Type *Antilope cervicapra* Linnæus.

*Redunca* H. Smith, Griff. Anim. Kingd., v, 1827, p. 337.

*Nagor* Laurill., Dict. Univ. Hist. Nat., 1, 1839, p. 621.

*Eleotragus* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 165.

**130. Cervicapra arundinum** (Boddaert).

*Antilope arundinum* Bodd., Elench. Anim., 1785, p. 141.

*Antilope eleotragus* Schreb., Säugth., iv, 1792, pl. CCLXVI. (1787.)

*Antilope cærulescens* Link, Beitr. Naturg., II, 1795, p. 99.

*Antilope oreotragus* Bechst., Syst. Uebers. vierf. Thier., 1, 1799, p. 80. (nec Schreb.)

*Antilope arundinacea* Bechst., in Penn. Allgem. Uebers. vierf. Thier., 1, 1799, p. 81.

*Antilope cinerea* Bechst., in Penn. Allgem. Uebers. vierf. Thier., II, 1800, p. 643.

*Antilope isabellina* Afzel., N. Act. Ups., VII, 1815, p. 250.

*Cerophorus* (*Cervicapra*) *eleotragus* Blainv., Bull. Soc. Philom. Paris, 1816, p. 75.

*Antilope oleotragus* Desmoul., Dict. Class. Hist. Nat., 1, 1822, p. 446.

*Redunca eleotragus* A. Smith, S. Afr. Quart. Journ., II, 1834, p. 210..

*Eleotragus eleotragus* Jent., Notes Leyd. Mus., IX, 1887, p. 172.

*Cervicapra arundinum* Flow. & Lydek., Mamm. Liv. & Ext., 1891, p. 340. Sclat. & Thos., Book Antel., II, 1896-1897, p. 157, pl. XLIII.

**REEDBUCK.**

1. Adult ♂ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.

2. Adult ♀ P. Beira District, Portuguese E. Africa. R. H. Ferress Stranack.

**131. Cervicapra bohor** (Rüppell).

*Antilope redunca* Rüpp., Neue Wirbelth. Abyss., 1835, p. 20, pl. VII, fig. 1. (nec Pall.)

*Redunca bohor* Rüpp., Verz. Senck. Mus., 1842, p. 38.

*Antilope bohor* Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 425.

*Cervicapra bohor* Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1844, p. 195. Sclat. & Thos., Book Antel., II, 1896-1897, p. 165.

*Eleotragus bohor* Temm., Esquiss. Zool., 1853, p. 191.

*Eleotragus reduncus* Heugl., Ant. u. Büff. N. O.-Afr., Nou. Act.

Leop., xxx, Pt. 2, 1863, p. 11.

*Antilope arundinacea* Schweinf., Herz. von Afrika, II, 1874, p. 465.

BOHOR.

1. Adult ♂ P. Abyssinia. P. H. G. Powell-Cotton.

2. Adult ♀ P. Abyssinia. P. H. G. Powell-Cotton.

a. *Cervicapra redunca wardi* Thomas.

*Cervicapra redunca wardi* Thos., Ann. Mag. Nat. Hist., 7th Ser., VI, 1900, p. 303.

WARD'S REEDBUCK.

1. Adult ♂ P. Mau Plateau, Masailand, Brit. E. Africa. F. J. Jackson.

2. Adult ♀ P. Mau Plateau, Masailand, Brit. E. Africa. F. J. Jackson.

132. *Cervicapra chanleri* Rothschild.

*Cervicapra chanleri* Rothschild., Novitat. Zool., II, 1895, p. 53.

Sclat. & Thos., Book Antel., II, 1896-1897, p. 183.

CHANLER'S REEDBUCK.

1. Adult ♀ P. The Ravine, Uganda, East Africa. F. J. Jackson..

Genus 63. **Antilope.**

**Antilope** Pall., Misc. Zool., 1766, p. 1, pls. I, IV, fig. 3. Type———?

133. **Antilope cervicapra** (Linnæus).

*Capra cervicapra* Linn., Syst. Nat., I, 1758, p. 69.

*Antilope cervicapra* Pall., Misc. Zool., 1766, p. 9. Sclat. & Thos., Book Antel., III, 1897-1898, p. 5, pl. XLVII.

*Antilope rupicapra* Müll., Natur. Syst., Suppl., 1776, p. 56.

*Cemas strepsiceros* Oken, Lehrb. Nat., 1816, p. 732.

*Cervicapra bezoartica* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 159.

BLACK-BUCK.

1. Juv. ♂ P. India. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 64. **Æpyceras.**

**Æpyceros!** Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1845, p. 271. Type *Antilope melampus* Lichtenstein.

**134. *Æpyceras melampus* (Lichtenstein).**

*Antilope melampus* Licht., Reisen, II, 1812, p. 544, pl. IV.

*Æpyceros! melampus* Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1845, p. 271. Sclat. & Thos., Book Antel., III, 1897-1898, p. 17, pl. XLVIII.

*Strepsiceros suara* Matsch., Sitzungsab. Ges. Natur. Freund., 1892, p. 135.

*Æpyceros! melampus johnstoni* Thos., Proc. Zool. Soc., 1892, p. 553.

*Æpyceros! melampus holubi* Lorenz., Ann. Mus. Wien, IX, 1894, p. 62. Notizen.

**PALLAS.**

1. Adult ♂ P. Kilimanjaro District, E. Africa. F. J. Jackson.

**135. *Æpyceras petersi* Bocage.**

*Æpyceros! petersi* Bocage, Proc. Zool. Soc., 1878, p. 741. Sclat. & Thos., Book Antel., III, 1897-1898, p. 25, fig. (head & horns.)

*Æpyceros! melampus* Jent., Notes Leyd. Mus., IX, 1887, p. 173. (nec Lichtenstein.)

**ANGOLAN PALLAS.**

1. Adult ♂ P. Angola, Portuguese W. Africa. E. Gerrard & Sons.

2. Adult ♀ P. Angola, Portuguese W. Africa. E. Gerrard & Sons.

**Genus 65. *Saiga*.**

**Saiga** Gray, List Spec. Mamm. Brit. Mus., 1843, p. xxvi. Type *Capra tatarica* Linnæus.

*Colus* Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 419.

**136. *Saiga tatarica* Linnæus.**

*Capra tatarica* Linn., Syst. Nat., I, 1766, p. 97.

*Antilope saiga* Pall., Misc. Zool., 1766, p. 6.

*Capra sayga* Forst., Phil. Trans., LVII, 1767, p. 344.

*Antilope scythica* Pall., Spicil. Zool., 1767, p. 9.

*Cemas colus* Oken, Lehrb. Naturg., 1816, p. 730.

*Saiga tatarica* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 160. Sclat. & Thos., Book Antel., III, 1897-1898, p. 31, pl. XLIX.

**THE SAIGA.**

1. Adult ♂ P. Turkmenen Steppe, Asia. J. Friesser.

2. Adult ♀ P. Turkmenen Steppe, Asia. J. Friesser.

3. Juv. ♀ P. Turkmenen Steppe, Asia. J. Friesser.





FIG. XV. SAIGA TATARICA. SAIGA ANTELOPE.

Genus 66. **Pantholops.**

**Pantholops** Hodgs., Proc. Zool. Soc., 1834, p. 81. Type *Antilope hodgsonii* Abel.

*Kemas* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 157. (nec Ogilby, 1837.)

**137. *Pantholops hodgsoni* (Abel).**

*Antilope hodgsonii* Abel, Calc. Govern. Gazette, cf. Phil. Mag., LXVIII, 1826, p. 234.

*Antilope chiru* Less., Man. Mamm., 1827, p. 371.

*Pantholops hodgsoni* Hodgs., Proc. Zool. Soc., 1834, p. 80. Sclat. & Thos., Book Antel., III, 1897-1898, p. 45, pl. L.

*Kemas hodgsoni* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 157.

## THE CHIRU.

1. Adult ♂ P. Pebuk, Western Tibet, 17,500 feet elevation. P.  
H. G. Powell-Cotton.



FIG XVI. PANTHOLOPS HODGSONI. THE CHIRU.

Genus 67. **Antidorcas.**

**Antidorcas** Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1847, p. 271. Type *Antilope marsupialis* Zimmermann.

138. **Antidorcas \* marsupialis** (Zimmermann).

*Antilope marsupialis* Zimm., Geogr. Gesch., II, 1780, p. 427.

*Antilope euchore* "Forst." Zimm., Geogr. Gesch., III, 1783, p. 269.

*Antilope saccata* Bodd., Elench. Anim., 1785, p. 142.

*Capra pygargus* Thunb., Resa, II, 1789, p. 28.

*Antilope saltans* Kerr, Anim. Kingd., 1792, p. 312.

*Antilope saltatrix* Link, Beitr. Naturg., 1795, p. 79. (nec Bodd.)

*Antilope saliens* Desm., Nouv. Dict. Hist. Nat., XXIV, 1804, p. 33, tabl.

*Cerophorus (Gazella) euchore* Blainv., Bull. Soc. Philom. Paris, 1816, p. 75.

*Gazella euchore* A. Smith, S. Afr. Quart. Journ., II, 1834, p. 191.

*Antidorcas euchore* Sclat. & Thos., Book Antel., III, 1897-1898, p. 55, pl. LI.

## SPRINGBOK.

1. Adult ♂ P. Coroque River, Angola, W. Africa. J. W. Penrice.

2. Adult ♀ P. Angola, West Africa. Rowland Ward & Co.

Genus 68. **Gacella.**

**Gacella** Frisch, Das Nat.-Syst. Vierf. Thiere, in Tabellen, 2, Tab. Gen., 1775. Type ———?

*Gazella* Licht., Mag. Gesell. Naturf. Freund., Berlin, VI, 1814, pp. 152, 171.

*Dorcas* Gray, Lond. Med. Repos., xv, 1821, p. 307.

*Dama* Bennett, Trans. Zool. Soc., I, 1833, p. 7. Gray, Glean.

Menag. & Aviary Knowsley Hall, 1850, p. 27, tab. XXIII, fig. 1.

*Leptoceros* Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 422.

*Procapra* Hodgs., Journ. Asiat. Soc. Beng., xv, 1846, p. 334.

*Tragops* Hodgs., Journ. Asiat. Soc. Beng., xvi, 1847, p. 695.

*Tragopsis* Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LIX, 1869, p. 157.

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\**Marsupialis* was published by Zimmermann three years before he named the Springbok *euchore*, and unless the law of priority is of no effect, this animal must bear the name first given — *marsupialis*. If the said law can be ignored with impunity at the will of a writer, nomenclature will soon become chaotic.



*Eudorcas* Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LIX, 1869, p. 159.

*Korin* Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 39.

*Nanger* Lataste, Act. Soc. Linn. Bord., xxxix, 1885, p. 173.

**139. *Gacella picticaudata* (Hodgson).**

*Procapra picticaudata* Hodgs., Journ. Asiat. Soc. Beng., xv, 1846, p. 334, pl. II; xvi, 1847, p. 696.

*Antilope picticaudata* Wagn., Schreb. Säugth., Suppl., v, 1855, p. 408.

*Gazella picticaudata* Sclat. & Thos., Book Antel., III, 1897-1898, p. 71, pl. LII.

**TIBETAN GAZELLE.**

1. Adult ♂ P. Kalosh, Cashmir. P. H. G. Powell-Cotton.

**a. *Gacella subgutturosa yarkandensis* Blanford.**

*Gazella subgutturosa yarkandensis* Blanf., Second Yark. Miss., Mamm., 1879, p. 88, pl. 15. Sclat. & Thos., Book Antel., III, 1897-1898, p. 93 text.

**TURKESTAN GAZELLE.**

1. Adult ♂ Exch. near Lob Nor, E. Turkestan. Mus. Hist. Nat. Paris. Bartholot & Prince Henri d'Orleans.
2. Adult ♀ Exch. near Lob Nor, E. Turkestan. Mus. Hist. Nat. Paris. Bartholot & Prince Henri d'Orleans.
3. Adult — P. Yarkand, Asia. Rowland Ward & Co. R. Gordon Cotton.

**140. *Gacella dorcas* (Linnæus).**

*Capra dorcas* Linn., Syst. Nat., I, 1758, p. 69.

*Antilope gazella* Pall., Misc. Zool., 1766, p. 7.

*Antilope kevela* Pall., Misc. Zool., 1766, p. 7.

*Antilope corinna* Pall., Misc. Zool., 1766, p. 7.

*Antilope dorcas* Pall., Spic. Zool., I, 1767, p. 11.

*Cemas dorcas* Oken, Lehrb. Nat., III, Pt. 2, 1816, p. 737.

*Cerophorus (Gazella) kevela* Blainv., Bull. Soc. Philom. Paris, 1816, p. 75.

*Dorcas dorcas* Gray, Lond. Med. Repos., xv, 1821, p. 307.

*Gazella dorcas* Ogilby, Proc. Zool. Soc., 1836, p. 137. Sclat. & Thos., Book Antel., III, 1897-1898, p. 99, pl. LVII.

*Gazella dorcas sundevalli* Fitzin., Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LIX, Pt. 1, 1869, p. 159.

**DORCAS GAZELLE.**

1. Adult ♂ P. North Africa. T. W. Franklin.
2. Adult ♀ P. North Africa. T. W. Franklin.

**141. *Gacella bennettii* (Sykes).**

*Antelope bennettii* Sykes, Proc. Zool. Soc., 1831, p. 104.

*Antelope arabica* Elliot, Madr. Journ., x, 1839, p. 223.

*Gazella christii* Blyth, Journ. Asiat. Soc. Beng., xi, 1842, p. 452.

*Gazella bennetti* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 161.

Sclat. & Thos., Book Antel., III, 1897-1898, p. 119, pl. LX.

*Tragops bennettii* Hodgs., Journ. Asiat. Soc. Beng., 1847, pp. II, XVI, 695.

*Gazella hazenna* Temm., Esquiss. Zool., 1853, p. 193.

*Gazella fuscifrons* Blanf., Proc. Zool. Soc., 1873, p. 317, fig.

**INDIAN GAZELLE.**

1. Adult ♂ P. India. Ward's Nat. Scien. Establ., Rochester, N. Y.

**142. *Gacella spekii* Blyth.**

*Gazella cuvieri* Blyth, Rep. Zool. Coll. Somali, 1860, p. 8. (nec Ogilby.)

*Gazella spekei* Blyth, Cat. Mamm. Mus. Asiat. Soc. Beng., 1863, p. 172. Elliot, Pub. Field Columb. Mus., I, 1897, p. 120.

Zool. Ser. Sclat. & Thos., Book Antel., III, 1897-1898, p. 125, pl. LXI.

*Gazella naso* Sclat., Proc. Zool. Soc., 1886, p. 504, pl. LI.

**SPEKE'S GAZELLE.**

1. Adult ♂ Coll. Laferug, Somaliland, E. Africa. D. G. Elliot.
2. Adult ♀ Coll. Laferug, Somaliland, E. Africa. D. G. Elliot.
3. Adult ♂ Coll. Bodeleh, Somaliland, E. Africa. D. G. Elliot.
4. Adult ♀ Coll. Bodeleh, Somaliland, E. Africa. D. G. Elliot.
5. Juv. ♀ Coll. Bodeleh, Somaliland, E. Africa. D. G. Elliot.
6. Adult ♀ Coll. Le Gud, Somaliland, E. Africa. D. G. Elliot.

**143. *Gacella pelzelni* Kohl.**

*Gazella spekei* Sclat., Proc. Zool. Soc., 1884, p. 540. (nec Blyth.)

*Gazella pelzelni* Kohl., Sitzungsber. K. Zool.-Bot. Gesch. Wien, 1886, p. 4. Elliot, Pub. Field Columb. Mus., I, 1897, p. 119.

Zool. Ser. Sclat. & Thos., Book Antel., III, 1897-1898, p. 133, pl. LXII.

**PELZELN'S GAZELLE.**

- 1-3. Adult ♂ Coll. Durban, Somaliland, E. Africa. D. G. Elliot.
- 4-7. Adult ♀ Coll. Durban, Somaliland, E. Africa. D. G. Elliot.
8. Juv. ♀ Coll. Durban, Somaliland, E. Africa. D. G. Elliot.
9. Adult ♂ Coll. Deregodeh, Somaliland, E. Africa. D. G. Elliot.
10. Adult ♀ Coll. Deregodeh, Somaliland, E. Africa. D. G. Elliot.

11. Adult ♀ Coll. Hullieh, Somaliland, E. Africa. D. G. Elliot.
12. Adult ♂ P. Somaliland, E. Africa. E. Gerrard & Sons.
13. Adult ♀ P. Somaliland, E. Africa. E. Gerrard & Sons.

**144. *Gacella thomsoni* Günther.**

*Gazella thomsoni* Günth., Ann. Mag. Nat. Hist., 5th Ser., xiv, 1884, p. 427, fig. Sclat. & Thos., Book Antel., III, 1897-1898, p. 171, pl. LXVII.

**THOMSON'S GAZELLE.**

1. Adult ♂ P. Lake Naivasha, Brit. E. Africa. F. J. Jackson.

**145. *Gacella granti* Brooke.**

*Antilope sammerringii*? Speke, Proc. Zool. Soc., 1863, p. 3. (nec Cretzsch.)

*Gazella granti* Brooke, Proc. Zool. Soc., 1872, p. 601, pl. xli. Sclat. & Thos., Book Antel., III, 1897-1898, p. 179, pl. LXIX.

**GRANT'S GAZELLE.**

1. Adult ♂ P. Kilimanjaro District, Brit. E. Africa. F. J. Jackson.
2. Adult ♀ Exch. Lake Rudolph, E. Africa. E. Dodson.

**146. *Gacella soemmerringi* (Cretzschmar).**

*Antilope soemmerringii* Cretzsch., Atl. Rupp. Reise, 1826, p. 49, p. XIX.

*Gazella soemmerringi* Jard., Nat. Libr., VII, 1842, p. 215, pl. xxviii. Elliot, Pub. Field Columb. Mus., I, 1897, p. 122. Zool. Ser. Sclat. & Thos., Book Antel., III, 1897-1898, p. 195, pl. LXX.

*Antilope soemmerringi berberana* Matsch., Sitzungs. Ges. Natur. Freund. Berl., 1893, p. 65.

**SOEMMERRING'S GAZELLE.**

- 1-2. Adult ♂ Coll. Durban, Somaliland, E. Africa. D. G. Elliot.
3. Adult ♂ Coll. Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
4. Adult ♂ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
- 5-6. Adult ♂ Coll. Hersi Barri, Ogaden, E. Africa. D. G. Elliot.
- 7-9. Adult ♀ Coll. Hersi Barri, Ogaden, E. Africa. D. G. Elliot.
- 10-14. Adult ♂ Coll. Silo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
15. Juv. ♂ Coll. Silo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.



16-19. Adult ♀ Coll. Silo Plain, Haud, Somaliland, E. Africa.  
D. G. Elliot.

Genus 69. **Ammodorcas.**

**Ammodorcas** Thos., Proc. Zool. Soc., 1891, p. 207. Type *Cervicapra clarkei* Thomas.

**147. Ammodorcas clarkii** (Thomas).

*Cervicapra clarkei* Thos., Ann. Mag. Nat. Hist., 6th Ser., vii,  
1891, p. 304.

*Ammodorcas clarkei* Thos., Proc. Zool. Soc., 1891, p. 207, pls. xxi,



FIG. XVII. AMMODORCAS CLARKII. DIBATAG.

XXII. Elliot, Pub. Field Columb. Mus., I, 1897, p. 124. Zoöl. Ser. Sclat. & Thos., Book Antel., III, 1897-1898, p. 219, pl. LXXIII.

#### DIBATAG.

- 1-2. Adult ♂ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
3. Juv. ♂ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
- 4-5. Adult ♀ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
6. Juv. ♀ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.

#### Genus 70. **Lithocranius.**

**Lithocranius!** Kohl, Ann. Mus. Wien, I, 1886, p. 79. Type *Gazella walleri* Brooke.

#### 148. **Lithocranius walleri** (Brooke).

*Gazella walleri* Brooke, Proc. Zoöl. Soc., 1878, p. 929, pl. LVI.

*Lithocranius!* (*Gazella*) *walleri* Kohl, Ann. Mus. Wien, I, 1886, p. 79, pl. v, fig. 3, pl. vi, fig. 1.

*Lithocranius walleri* Thos., Proc. Zoöl. Soc., 1891, p. 207. Elliot. Pub. Field Columb. Mus., I, 1897, p. 126. Zoöl. Ser. Sclat. & Thos., Book Antel., III, 1897-1898, p. 229, pl. LXXIV.

\* *Lithocranius sclateri* Neumann, Sitzungsab. Ges. Naturf. Freund. Berl., 1899, p. 19. Sclat. & Thos., Book Antel., IV, 1899-1900, p. 228.

\* Neumann (l. c.) has separated the Somali Gerenuk from those of other parts of East Africa on account, as he states, of its less red color, lack of black knee tufts, and larger horns. These do not seem to be characters of specific value, for in quite a large number of Gerenuk obtained by myself in Somaliland and Oga-den, there was found to be a great variation in the depth of the red coloring, especially on the back (some individuals being very dark and others comparatively light), while the horns were of all lengths and weights even among adult males. I should therefore regard depth of color and size of horns more the results of individual variation than as indicating any degree of a distinct rank. All of my Somali specimens, even the very young animals, had black at the knee, so this character? of Mr. Neumann is evidently found on all Gerenuk. In my paper on Somali mammals I mention a difference observed in the Gerenuk from the north and south sides of Toyo Plain, in the presence or absence, and its extent when present, of the conspicuous white stripe from the eyes to end of nose. But after comparing many specimens from various localities, the conclusion was apparently inevitable that there was only one species, and

## GERENUK.

1. Adult ♂ Coll. Mandera, Somaliland, E. Africa. D. G. Elliot.
2. Adult ♀ Coll. Laferug, Somaliland, E. Africa. D. G. Elliot.
3. Adult ♂ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
4. Adult ♀ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
- 5-7. Juv. ♂ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
8. Juv. ♀ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
- 9-11. Adult ♂ Coll. Hullieh, Somaliland, E. Africa. D. G. Elliot.
- 12-14. Adult ♀ Coll. Hullieh, Somaliland, E. Africa. D. G. Elliot.
15. Adult ♂ Coll. Bodeleh, Somaliland, E. Africa. D. G. Elliot.
16. Juv. ♀ Coll. Haud, Somaliland, E. Africa. D. G. Elliot.

Genus 71. **Dorcotragus.**

**Dorcotragus** Noack, Zool. Anz., xvii, 1894, p. 202. Type *Oreotragus megalotis* Menges.

**149. Dorcotragus megalotis** (Menges).

*Oreotragus megalotis* Menges, Zool. Anz., xvii, 1894, p. 131.

*Dorcotragus megalotis* Noack, Zool. Anz., xvii, 1894, p. 202. Elliot, Pub. Field Columb. Mus., i, 1897, p. 135. Zool. Ser. Sclat. & Thos., Book Antel., iii, 1897-1898, p. 241, pl. LXXV.

## BEIRA.

1. Adult ♀ Coll. Nasr Hablod, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.
2. Juv. ♀ Coll. Nasr Hablod, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.

that it was subject to much individual variation in the depth of body coloring and also in the absence or presence to a changeable extent of facial stripes. With the experience thus gained in the field of the appearance of this antelope, I fail to find in Mr. Neumann's description any characters sufficient, in my opinion, to warrant a specific, or even subspecific, rank to *L. sclateri*, and have therefore included the name in the synonyms given above.



Subfamily V. \***Addaxinæ**.Genus 72. **Ozanna**.

- Ozanna** Reichenb., Vollst. Naturg. In-und Ausl., Säugeth., III, 1845, p. 126, Taf. xxxix, xl. Type *Antilope niger* Harris.  
*Egocerus* (sic) Desm., Mamm., II, 1822, p. 475. (nec *Ægocerus*! Pall.)  
*Aigocerus*! H. Smith, Griff. Anim. Kingd., v, 1827, p. 324.  
*Hippotragus* Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1846, p. 196.  
*Ozanna* Brehm, Thierl., III, 1880, p. 227. Syn.

**150. Ozanna equina** (Desmarest).

- Antilope equina* Desm., Nouv. Dict. Hist. Nat., xxiv, 1804, p. 4, Tabl. p. 32.  
*Capra æthiopica* Schinz, Cuv. Thierr., I, 1821, p. 403.  
*Capra jubata* Goldf., Schreb. Säugth., v, 1824, pl. 287c.  
*Antilope barbata* H. Smith, Griff. Anim. Kingd., iv, 1827, p. 180; v, p. 325.  
*Antilope aurita* H. Smith, Griff. Anim. Kingd., v, 1827, p. 325.  
*Antilope truteri* Fisch., Syn. Mamm., 1829, p. 478.  
*Aegoceros! leucophæus* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 158. (nec Pall.)  
*Hippotragus leucophæus* Brehm, Thierl., III, 1880, p. 226.  
*Hippotragus equinus* Sclat. & Thos., Book Antel., iv, 1899-1900, p. 13, pls. LXXVII, LXXVIII.

**ROAN ANTELOPE.**

1. Adult ♂ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.
2. Adult ♀ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.
- 3-4. Adult ♂ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.
5. Adult ♀ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.

**151. Ozanna nigra** (Harris).

- Aigocerus! niger* Harris, Proc. Zoöl. Soc., 1838, p. 2.  
*Antilope nigra* Gerv., Dict. Scien. Nat., Suppl., I, 1840, p. 265.  
*Hippotragus niger* Sundev., K. Sven. Vet.-Akad. Handl. Stockh.,

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\*Addax having priority over the other genera, gives the name to the subfamily.

1846, p. 197. Sclat. & Thos., Book Antel., iv, 1899-1900, p. 31, pls. LXXIX, LXXX.

*Ægoceros! niger* var. *kirki* Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 35.

*Ozanna nigra* Brehm, Thierl., III, 1880, p. 227.

#### SABLE ANTELOPE.

1. Adult ♂ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.
2. Adult ♀ P. Hanyani River, Mashonaland, E. Africa. F. C. Selous.

### Genus 73. *Oryx*.

*Oryx* Blainv., Bull. Soc. Philom. Paris, 1816, p. 75. Type *Capra gazella* (Linnæus).

#### 152. *Oryx algazel* (Oken).

*Antilope algazel* Oken, Lehrb. Naturg., III, Pt. 2, 1816, p. 741.

*Oryx leucoryx* Auct. (nec. Pallas.)

#### SCIMITAR ORYX.

1. Adult ♂ P. W. Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

#### 153. *Oryx gazella* (Linnæus).

*Capra gazella* Linn., Syst. Nat., I, 1758, p. 69.

*Antilope bezoartica* Pall., Misc. Zool., 1766, p. 8. (nec Linn.)

*Antilope recticornis* Erxl., Syst. Regn. Anim., 1777, p. 272.

*Antilope oryx* Pall., Spic. Zool., fasc. XII, 1777, pp. 16, 61.

*Antilope pasan* Daud., Lacép. Buff., XIV, 1799, p. 182.

*Oryx capensis* Ogilby, Proc. Zool. Soc., 1836, p. 139.

*Oryx gazella* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 156.

Sclat. & Thos., Book Antel., iv, 1899-1900, p. 57, pl. LXXXIII.

*Oryx oryx* Jent., Cat. Ost. Leyd. Mus., IX, 1887, p. 135.

#### GEMSBOK.

1. Adult ♀ P. Coroque River, Angola, West Africa. J. W. Penrice.

#### 154. *Oryx beisa* (Rüppell).

*Antilope beisa* Rüpp., Neue Wirbelth. Abyss., 1835, p. 14, pl. v.

*Oryx beisa* Sundev., K. Sven. Vet.-Akad. Handl. Stockh., 1844, p. 207. Elliot, Pub. Field Columb. Mus., I, 1897, p. 130. Zool. Ser. Sclat. & Thos., Book Antel., iv, 1899-1900, p. 65, pl. LXXXIV.

## THE BEISA.

1. Adult ♂ Coll. Hullieh, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.
2. Adult ♀ Coll. Hullieh, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.
- 3-4. Juv. ♂ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
5. Adult ♀ Coll. South of Toyo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
6. Adult ♂ Coll. Bodeleh, Somaliland, E. Africa. D. G. Elliot.
7. Adult ♀ Coll. Silo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
8. Adult ♂ Coll. Haud, Somaliland, E. Africa. D. G. Elliot.
9. Juv. ♂ Coll. Haud, Somaliland, E. Africa. D. G. Elliot.
10. Adult ♀ Coll. Hersi Barri, Ogaden, E. Africa. D. G. Elliot.

Subfamily VI. **Tragelaphinæ.**Genus 74. **Boselaphus.**

**Boselaphus** Blainv., Bull. Soc. Philom. Paris, 1816, p. 75. Type *Antilope tragocamelus* Pallas.

*Portax* H. Smith, Griff. Anim. Kingd., v, 1827, p. 366.

*Tragelaphus* Ogilby, Proc. Zool. Soc., 1837, p. 138. (nec Blainville.)

**155. Boselaphus tragocamelus** (Pallas).

*Antilope tragocamelus* Pall., Misc. Zool., 1766, p. 5.

*Antilope picta* Pall., Spic. Zool., XII, 1777, p. 14.

*Antilope albipes* Erxl., Syst. Regn. Anim., 1777, p. 280.

*Antilope leucopus* Zimm., Spec. Zool. Geogr., 1777, p. 541.

*Boselaphus albipes* Desm., Nouv. Dict. Hist. Nat., II, 1816, p. 199, pl. xxxiii, fig. 2.

*Portax tragelaphus* Sundev., K. Sven. Vet.-Akad. Handl. Stockh., LXV, 1846, p. 198.

*Boselaphus tragocamelus* Sclat. & Thos., Book Antel., IV, 1899-1900, p. 93, pl. LXXXVII.

## INDIAN ANTELOPE. NILGAI.

1. Juv. ♂ P. North India. Ward's Nat. Scien. Establ., Rochester, N. Y.



Genus 75. **Tragelaphus.**

**Tragelaphus** Blainv., Bull. Soc. Philom. Paris, 1816, p. 75. Type  
*Antilope sylvatica* Sparrman.

**156. Tragelaphus sylvaticus** (Sparrman).

*Antilope sylvatica* Sparrm., Act. Holm, 1780, p. 197, pl. vii.

*Tragelaphus sylvaticus* Blainv., Bull. Soc. Philom. Paris, 1816,  
p. 75. Sclat. & Thos., Book Antel., iv, 1899-1900, p. 117, pl.  
xc, fig. 2.

*Tragelaphus scriptus sylvaticus* Thos., Proc. Zoöl. Soc., 1891,  
p. 389.

## CAPE BUSHBUCK.

1. Adult ♂ P. Mau Plateau (The Ravine), Masailand, E. Africa.  
F. J. Jackson.
2. Adult ♀ P. Mau Plateau (The Ravine), Masailand, E. Africa.  
F. J. Jackson.
3. Juv. ♂ P. Mau Plateau (The Ravine), Masailand, E. Africa.  
F. J. Jackson.
4. Juv. ♀ P. Mau Plateau (The Ravine), Masailand, E. Africa.  
F. J. Jackson.

*a. Tragelaphus roualeyni fasciatus* (Pocock).

*Tragelaphus decula* Swayne, Proc. Zoöl. Soc., 1894, p. 317. (nec  
Rüpp.)

*Tragelaphus scriptus fasciatus* Pocock, Ann. Mag. Nat. Hist.,  
7th Ser., v, 1900, p. 95.

*Tragelaphus roualeyni fasciatus* Sclat. & Thos., Book Antel., iv,  
1899-1900, pp. 123, 128, pl. xc, fig. 1.

## CUMMING'S STRIPED BUSHBUCK.

1. Adult ♂ P. Mashonaland, E. Africa. Ward's Nat. Scien.  
Establ., Rochester, N. Y.

Genus 76. **Boöcercus.**

**Boocercus** Thomas, Ann. Mag. Nat. Hist., 7th Ser., x, 1902, p. 309.

Type *Boocercus eurycerus isaaci* Thomas.

*Euryceros*! Gray, Glean. Menag. Aviary Knowsl. Hall., 1850,  
p. 27, tab. xxiii, fig. 1. *Id.* Cat. Rumin. Mamm. Brit. Mus.,  
1872, p. 47. (nec *Eurycerus* Illiger, 1807, Coleopt.)

a. \**Boöcercus eurycerus isaaci* Thomas.

*Boocercus eurycerus isaaci* Thos., Ann. Mag. Nat. Hist., 7th Ser.,  
x, 1902, p. 309. Id. Proc. Zool. Soc., 1902, p. 319.



FIG. XVIII. BOÖCERCUS EURYCERUS. BONGO.

ISAAC'S BONGO.

1. Adult ♂ P. British East Africa. Rowland Ward & Co.

#### Genus 77. **Limnotragus.**

**Limnotragus** Sclat. & Thos., Book Antel., iv, 1899-1900, p. 149.

Type *Tragelaphus spekii* Sclater.

*Hydrotragus* Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 49.  
(nec Fitzin., 1869.)

\*Species not yet represented in the collection; specimen ordered from London.

**157. *Limnotragus gratus* (Sclater).**

*Tragelaphus spekii* Peters, Monatsb. K. Preuss. Akad. Wiss.  
Berlin, 1876, p. 484. (nec Sclat.)

*Tragelaphus gratus* Sclat., Proc. Zool. Soc., 1880, p. 452, pl. XLIV.

*Limnotragus gratus* Sclat. & Thos., Book Antel., IV, 1899-1900,  
p. 165, pl. xcv.



FIG. XIX. LIMNOTRAGUS GRATUS. CONGAN SITATUNGA.

CONGAN SITATUNGA.

1. Adult ♂ P. Gaboon, West Africa. E. Gerrard & Sons.



Genus 78. **Strepsiceros.**

- Strepsiceros** Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, Tab. Gen., 1775. Rafin., Anal. Nat., 1815, p. 56. H. Smith, Griff. Anim. Kingd., v, 1827, p. 365. Type *Antilope strepsiceros* Pallas.  
*Calliope* Ogilby, Proc. Zool. Soc., 1837, p. 138.

**158. Strepsiceros strepsiceros** (Pallas).

- Antilope strepsiceros* Pall., Misc. Zool., 1766, p. 9.  
*Antilope tendal* Cretzschm., Atl. Rüpp Reise, Säugeth., 1826, p. 22.  
*Antilope chora* Fisch., Syn. Mamm., 1829, p. 475.  
*Strepsiceros strepsiceros* Smuts, En. Mamm. Cap., 1832, p. 92.  
*Strepsiceros capensis* A. Smith., S Afr. Quart. Journ., II, 1834, p. 223. Sclat. & Thos., Book Antel., IV, 1899-1900, p. 173, pl. xcvi.  
*Calliope strepsiceros* Ogilby, Proc. Zool. Soc., 1836, p. 138.  
*Strepsiceros kudu* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 155. Elliot, Pub. Field Columb. Mus., I, 1897, p. 132. Zool. Ser.  
*Strepsiceros strepsiceros zambesiensis* Lorenz, Ann. Mus. Wien, IX, 1894, Notiz., p. 62.

## GREATER KUDU.

1. Adult ♂ Coll. Jerato Pass, Golis Mountains, Somaliland, E. Africa. D. G. Elliot.
2. Adult ♂ Coll. Hullieh, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.
3. Juv. ♂ Coll. Hullieh, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.
4. Adult ♀ Coll. Hullieh, near Hargeisa, Somaliland, E. Africa. D. G. Elliot.

**159. Strepsiceros imberbis** Blyth.

- Strepsiceros kudu* var. Gray, Proc. Zool. Soc., 1850, p. 143.  
*Strepsiceros imberbis* Blyth, Proc. Zool. Soc., 1869, p. 55. Elliot, Pub. Field Columb. Mus., I, 1897, p. 134. Zool. Ser. Sclat. & Thos., Book Antel., IV, 1899-1900, p. 185, pl. xcvi.  
*Strepsiceros tendal* Gray, Hand-L. Edent. Thick-s. & Rumin. Mamm. Brit. Mus., 1873, p. 118. (nec Fischer.)

## LESSER KUDU.

1. Juv. ♂ Coll. Leferug, Somaliland, E. Africa. D. G. Elliot.
- 2-3. Adult ♂ Coll. Mandera, Somaliland, E. Africa. D. G. Elliot.



FIG. XX. STREPSICEROS STREPSICEROS. GREATER KUDU.

- 4-7. Adult ♀ Coll. Mandera, Somaliland, E. Africa. D. G. Elliot.  
 8-9. Adult ♀ Coll. Hulleh, Somaliland, E. Africa. D. G. Elliot.

Genus 79. **Taurotragus.**

**Taurotragus** Wagn., Schreb. Säugth., Suppl., v, 1855, p. 439. Type *Antilope oryx* Pallas.

*Oreas* Desm., Mamm., II, 1822, p. 471. (nec Hübner, 1806, Lepidopt.)

*Doratoceros*! Lydek., Lond. Field, LXXVIII, 1891, p. 130.

*a. Taurotragus oryx livingstonii* (Sclater).

*Oreas livingstonii* Sclat., Proc. Zool. Soc., 1864, p. 105.

*Taurotragus oreas livingstonii* Sclat., Proc. Zool. Soc., 1893, p. 507.

*Oreas canna livingstoni* Jacks., Big Game Shoot., 1894, p. 285.

*Taurotragus oryx livingstonii* Sclat. & Thos., Book Antel., IV,  
1899-1900, p. 197, pl. XCIX.

LIVINGSTONE'S ELAND.

1. Adult ♀ P. Mashonaland, E. Africa. Ward's Nat. Scien.  
Etabl., Rochester, N. Y.

Subfamily VII. **Rupicaprinæ.**

Genus 80. **Rupicapra.**

**Rupicapra** Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, II, Tab.

Gen., 1775. Blainv., Bull. Soc. Philom. Paris., 1816, p. 75.

Type *Capra rupicapra* Linnæus.

*Capella* Keyserl. & Blas., Wirbelth. Europ., 1840, pp. IV, 9, 28.

*Aplocerus* (sic) H. Smith, Griff. Anim. Kingd., v, 1827, p. 354.

**160. Rupicapra rupicapra** (Linnæus).

*Capra rupicapra* Linn., Syst. Nat., I, 1758, p. 68.

*Rupicapra tragus* Gray, List Spec. Mamm. Brit. Mus., 1843,

p. 167. *Id.* Cat. Ungul. Brit. Mus., 1852, pl. XIV, figs. 2, 3, 4.

*Id.* Cat. Rumin. Mamm. Brit. Mus., 1872, p. 41.

CHAMOIS.

1. Adult ♂ P. Switzerland. Ward's Nat. Scien. Etabl., Rochester, N. Y.

Genus 81. **Nemorhædus.**

**Næmorhedus!** H. Smith, Griff. Anim. Kingd., v, 1827, p. 352. Type

*Antilope sumatrensis* Shaw.

*Kemas!* Ogilby, Proc. Zool. Soc., 1837, p. 138.

*Hemitragus* Van der Hoeven, Handb. Dierk., 2d ed., II, 1855,  
p. 943. (nec Hodgson.)

*Urotragus* Gray, Ann. Mag. Nat. Hist., 4th Ser., VIII, 1871, p. 371.

**161. Nemorhædus bubalinus** (Hodgson).

*Antilope bubalina* Hodgs., Proc. Zool. Soc., 1832, p. 12.

*Antilope thar* Hodgs., Glean. Scien., III, 1832, p. 324.

*Nemorhædus proclivus* vel *thar* Hodgs., Jour. Asiat. Soc. Beng.,  
X, 1841, p. 913.



*Capricornis bubalina* Gray, Proc. Zool. Soc., 1850, p. 135.

## SEROW.

1. Adult ♂ P. Sivalik Hills, Northern India. J. W. Penrice.

162. *Nemorhædus milne-edwardsi* (David).

*Capricornis milne-edwardsii* David, Archiv. Mus. Paris, v, 1869, p. 10.

## MILNE-EDWARDS'S MOUNTAIN GOAT.

1. Adult ♂ Exch. Ta-tsien-lou, Tibet. Mus. Hist. Nat. Paris. A. David.

163. *Nemorhædus griseus* (A. Milne-Edwards).

*Nemorhedus! griseus* A. Milne-Edw., Nouv. Archiv. Mus. Paris, VII, 1871, p. 93.

## GRAY MOUNTAIN GOAT.

1. Adult ♂ Exch. Tibet. Mus. Hist. Nat. Paris.

164. *Nemorhædus cinereus* (A. Milne-Edwards).

*Antilope (Nemorhedus!) cinerea* A. Milne-Edw., Recherch. Mamm., 1874, p. 362, pls. 70, 71, figs. 1, 71A.

## ASH-COLORED MOUNTAIN GOAT.

1. Adult ♀ Exch. Ta-tsien-Pon, China. Mus. Hist. Nat. Paris. R. P. Dejean.

165. *Nemorhædus goral* (Hardwicke).

*Antilope goral* Hardw., Trans. Linn. Soc. Lond., XIV, 1825, p. 518, pl. XIV.

*Kemas! goral* Ogilby, Proc. Zool. Soc., 1836, p. 138.

*Nemorhedus! goral* Horsf., Cat. Mamm. E. Ind. Mus., 1851, p. 168.

## GORAL.

1. Adult ♂ P. Tibet. Rowland Ward & Co.

Genus 82. *Capra*.

*Capra* Linn., Syst. Nat., I, 1758, p. 68. Type *Capra hircus* Linnæus.

*Ibex* Frisch, Das Nat.-Syst. vierf. Thiere, in Tabellen, I, Tab. Gen., 1775. Hodgs., Journ. Asiat. Soc. Beng., XVI, 1847, p. 700.

*Hircus* Bodd., Elench. Anim., 1785, p. 147.

*Aegoceros!* Pall., Zoogr. Rosso-Asiat., I, 1811, p. 224. (nec H. Smith.)

166. *Capra ibex* Linnæus.

*Capra ibex* Linn., Syst. Nat., I, 1758, p. 68.

*Aegoceros! ibex* Pall., Zoogr. Rosso-Asiat., I, 1811, p. 224.

*Ibex alpinus* Gray, List Osteol. Brit. Mus., 1847, p. 59.

*Ibex europæa* Hodg., Journ. Asiat. Soc. Beng., xvi, 1847, p. 700.

#### ALPINE IBEX.

1. Adult ♂ P. Switzerland. Ward's Nat. Scien. Establ., Rochester. N. Y.

#### 167. *Capra nubiana* F. Cuvier.

*Capra nubiana* F. Cuv., Hist. Nat. Mamm., fasc. vii, 1825, pl. 397.

*Capra sinaitica* Hemp. & Ehrenb., Symb. Phys., Zool., i, 1828, pl. xviii.

*Capra arabica* Rüpp., Neue Wirbelth. Abyssin., 1835, p. 17.

*Ægoceros!* *beden* Wagn., Schreb. Säugth., Suppl., v, 1855, p. 1303.

*Capra mengesi* Noack, Zool. Anz., 1896, p. 353.

#### ARABIAN IBEX.

1. Adult ♂ P. North Africa. J. F. G. Umlauff.

#### 168. *Capra hircus* Linnæus.

*Capra hircus* Linn., Syst. Nat., i, 1758, p. 68.

*Aegoceros!* *hircus* Pall., Zoogr. Rosso-Asiat., i, 1811, p. 227.

*Hircus ægagrus* Gray, Cat. Ungul. Brit. Mus., 1852, p. 152. (nec Gmel.)

#### DOMESTIC GOAT.

1. Adult ♂ P. Angola, Africa. Deyrolle Fils.
2. Adult ♂ P. Congo, Africa. Deyrolle Fils.

#### 169. *Capra ægagrus* Gmelin.

*Antilope gazella* Gmel., Syst. Nat., i, 1788, p. 190. (nec Linn.)

*Capra ægagrus* Gmel., Syst. Nat., i, 1788, p. 193.

*Aegoceros!* *ægagrus* Pall., Zoogr. Rosso-Asiat., i, 1811, p. 266.

*Capra caucasica* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 167.

*Ægoceros!* *pictus* Erhardt, Faun. Cyclad., 1858, p. 29.

*Hircus gazella* Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 53.

#### PASANG.

1. Adult ♂ P. Elbruz Mountains, Persia. J. Friesser.

#### 170. *Capra cylindricornis* (Blyth).

*Ovis cylindricornis* Blyth, Proc. Zoöl. Soc., 1840, p. 68.

*Capra caucasica* Keyserl. & Blas., Wirbelth. Europ., 1840, p. 28.

*Ægoceros!* *pallasi* Rouill., Bull. Soc. Mosc., xiv, 1841, p. 908, pl. xi.

*Capra cylindricornis* Büchn., Mém. Acad. St. Pétersb., xxxv, No. 8, 1887 p. 21.

#### EAST CAUCASIAN TUR.

1. Adult ♂ P. Central Caucasian Mountains. Rowland Ward & Co.



FIG. XXI. CAPRA CYLINDRICORNIS. EAST CAUCASIAN TUR.

**171. Capra falconeri** (Wagner).

*Ægoceros!* (*Capra*) *falconeri* Wagn., Münch. gelehrt. Anz., ix, 1839, p. 430.

*Ægoceros!* *falconeri* Wagn., Schreb. Säugth., Suppl., iv, 1844, p. 499.

*Hircus megaceros!* Adams, Proc. Zool. Soc., 1858, p. 525.

*Hircus falconeri* Gray, Cat. Rumin. Mamm. Brit. Mus., 1872, p. 53.

*Capra falconeri* Blanf., Faun. Brit. Ind., Mamm., 1888-91, p. 505, figs. 164, 165.

**MARKHOR.**

1. Adult ♂ P. Lufar, Kashmir. P. H. G. Powell-Cotton.

Genus 83. **Hemitragus.**

**Hemitragus** Hodgs., Calc. Jour. Nat. Hist., II, No. VI, 1841, p. 218.  
Type *Capra quadrimammis* vel *jharal* Hodgson.

172. **Hemitragus jemlahicus** (H. Smith).

*Capra jemlahica* (misprinted in text) H. Smith, Griff. Anim. Kingd., IV, 1827, p. 308, pl. V, 1827, p. 358.

*Capra jharal* Hodg., Asiat. Res., 1833, XVIII, Pt. 2, p. 129, pl.

*Capra quadrimammis* Hodg., Journ. Asiat. Soc. Beng., IV, 1835, p. 710.

*Hemitragus jemlaicus* Blanf., Faun. Brit. India, 1888-91, p. 509, fig. 168. Lydekk., Wild Oxen, Sheep & Goats, 1898, p. 296, pl. XXVI.

## HIMALAYAN TAHR.

1. Adult ♂ P. Chumba State, N. India. Rowland Ward & Co.

Genus 84. **Oreamnus.**

**Oreamnos!** Rafin., Amer. Month. Mag., II, 1817, p. 44. Type *Ovis montanus* Ord.

*Haploceros!* H. Smith, Griff. Anim. Kingd., V, 1827, p. 354.

173. **Oreamnus montanus** (Ord).

*Ovis montanus* Ord, Guth. Geog., 2d Amer. ed., II, 1815, p. 292.

*Oreamnus montanus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 44, pls. XVII, XVIII, XIX, XX. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 52. Zool. Ser.

## ROCKY MOUNTAIN GOAT.

1. Adult ♂ P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♀ P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.

3. Adult ♂ P. Montana. C. E. Akeley.

a. *Oreamnus montanus columbianus* Allen.

*Oreamnos! montanus columbianus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1904, p. 20.

*Oreamnus montanus columbianus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 52. Zool. Ser.



## COLUMBIAN MOUNTAIN GOAT.

1. Adult ♂ P. Between Bull River & Sheep Creek, British Columbia, Canada. Benj. Van Nostrand.
2. Adult ♀ P. Between Bull River & Sheep Creek, British Columbia, Canada. Benj. Van Nostrand.
3. Juv. — P. Between Bull River & Sheep Creek, British Columbia, Canada. Benj. Van Nostrand.

174. *Oreamnus kennedyi* Elliot.

*Oreamnus kennedyi* Elliot, Pub. Field Columb. Mus., III, 1900, p. 3.  
 Zoöl. Ser. *Id. Syn. N. Am. Mamm.*, F. C. M. Pub., II, 1901,  
 p. 44, pls. xvii-xx. Zoöl. Ser. *Id. Check-L. Mamm. N. Amer.*  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 53. Zoöl Ser.

## KENNEDY'S MOUNTAIN GOAT.

- 1-2. Adult ♂ P. Knik, Alaska. C. F. Periolat.
- 3-4. Adult ♀ P. Knik, Alaska. C. F. Periolat.
- 5-6. Juv. — P. Knik, Alaska. C. F. Periolat.

Genus 85. *Ovis*.

*Ovis* Linn., Syst. Nat., I, 1758, p. 70; I, 1766, p. 97. Type *Ovis aries* Linnæus.

175. *Ovis nahoar* Hodgson.

*Ovis nayaur* Hodgs., Asiat. Res., XVIII, Pt. 2, 1833, p. 135. (Part.)  
*Ovis nahoar* Hodgs., Proc. Zoöl. Soc., 1834, p. 107.  
*Ovis burrhel* Blyth, Proc. Zoöl. Soc., 1840, p. 67.  
*Ovis nahura* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 170.  
*Pseudois nahoar* Hodgs., Journ. Asiat. Soc. Beng., xv, 1846,  
 p. 343.  
*Musimon nahoar* Gerv., Hist. Nat. Mamm., II, 1855, p. 191.  
*Pseudois burrhel* Prezew, Cat. Zoöl. Coll., 1887, p. 16.

## BHARAL; BLUE WILD SHEEP.

1. Adult ♂ P. Nepal, India. Ward's Nat. Scien. Establ., Rochester, N. Y.

176. *Ovis lervia* (Pallas).

*Antilope lervia* Pallas, Spicil. Zool., fasc. XII, 1777, p. 12.  
*Ovis tragelaphus* Cuv., Règn. Anim., I, 1817, p. 268.  
*Ovis ornata* I. Geoff., Desc. Egypt. Hist. Nat., II, 1833, p. 742,  
 pl. VII.  
*Ovis (Ammotragus) tragelaphus* Blyth, Proc. Zoöl. Soc., 1840, pp.  
 13, 76.

*Musimon tragelaphus* Gerv., Hist. Nat. Mamm., 1855, p. 192.

AOUDAD; ARUI.

1. Adult ♂ P. North Africa. J. F. G. Umlauff.

**177. *Ovis cervina* Desmarest.**

*Ovis cervina* Desm., Nouv. Dict. Hist. Nat., 1804, p. 5. Elliot  
Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 46, pl. XXI.  
Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,  
F. C. M. Pub., VI, 1905, p. 53. Zoöl. Ser.

*Ovis canadensis* Shaw, Nat. Misc., 1804? p. 610.

BIG-HORN; ROCKY MOUNTAIN SHEEP.

1. Adult ♂ P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — P. Montana. C. E. Akeley.
3. Adult — P. Montana. C. E. Akeley.

**a. *Ovis cervina cremnobates* Elliot.**

*Ovis cervina cremnobates* Elliot, Pub. Field Columb. Mus., III, 1903,  
p. 239. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies,  
F. C. M. Pub., IV, Pt. 1, 1904, p. 84, figs. XXVI, XXVII, pls.  
XXXIV, XXXV. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont.  
& W. Indies, F. C. M. Pub., VI, 1905, p. 54. Zoöl. Ser.

LOWER CALIFORNIA MOUNTAIN SHEEP.

1. Juv. ♂ Paratype. Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 2-12. Adult ♀ Type and paratypes. Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
13. Juv. ♀ Paratype. Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 14-15. Adult ♂ Pres. Lower California, Mexico. Kennedy & Dupee.
16. Juv. ♂ Pres. Lower California, Mexico. Kennedy & Dupee.
- 17-18. Adult ♀ Pres. Lower California, Mexico. Kennedy & Dupee.

**178. *Ovis stonii* Allen.**

*Ovis stonei* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 111,  
pls. II, III. Elliot, Syn. N. Amer. Mamm., F. C. M. Pub., II,  
1901, p. 47. Zoöl. Ser.

*Ovis stonii* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies,  
F. C. M. Pub., VI, 1905, p. 54. Zoöl. Ser.

BLACK MOUNTAIN SHEEP.

- 1-3. Adult ♂ P. Mountains near Stickeen River, 18 miles from Glenora, British Columbia. H. Pidgeon.

- 4-6. Adult ♀ P. Mountains near Stickeen River, 18 miles from Glenora, British Columbia. H. Pidgeon.  
7. Juv. ♀ P. Mountains near Stickeen River, 18 miles from Glenora, British Columbia. H. Pidgeon.  
8. Juv. ♂ P. Mountains near Stickeen River, 18 miles from Glenora, British Columbia. H. Pidgeon.

**179. *Ovis dalli* (Nelson).**

*Ovis montana dalli* Nels., Proc. U. S. Nat. Mus., 1884, p. 12.

*Ovis dalli* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 47.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 55. Zoöl. Ser.



FIG. XXII. OVIS AMMON. ARGALI.

**DALL'S MOUNTAIN SHEEP.**

1. Adult ♂ Exch. Alaska. U. S. Nat. Museum.

**a. *Ovis dalli kenaiensis* Allen.**

- Ovis dalli kenaiensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1902, p. 145. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 55. Zool. Ser.

**KENAI PENINSULA MOUNTAIN SHEEP.**

- 1-2. Adult ♂ Pres. Kenai Peninsula, Alaska. V. S. Kennedy.  
 3. Adult ♀ Pres. Kenai Peninsula, Alaska. V. S. Kennedy.  
 4. Juv. ♂ Pres. Kenai Peninsula, Alaska. V. S. Kennedy.  
 5-6. Juv. — Pres. Kenai Peninsula, Alaska. V. S. Kennedy.

**180. *Ovis ammon* (Linnæus).**

*Capra ammon* Linn., Syst. Nat., I, 1758, p. 70.

*Ovis argali* Pall., Spicil. Zool., fasc. XI, 1777-80, p. 20.

*Ovis ammon* Erxl., Syst. Regn. Anim., 1777, p. 250.

*Aegoceros! argali* Pall., Zoogr. Rosso-Asiat., I, 1811, p. 231.

*Caprovis (Argali) argali* Gray, Cat. Ungul. Brit. Mus., 1852, p. 174.

*Musimon argali* Gerv., Hist. Nat. Mamm., II, 1855, p. 191.

**ARGALI.**

1. Adult ♂ P. Thian-Shan Mountains, Baimgol, China. J. Friesser.

**181. *Ovis musimon* (Pallas).**

*Aegoceros! musimon* Pall., Zoogr. Rosso-Asiat., I, 1811, p. 230.

*Ovis musmon!* H. Smith, Griff. Anim. Kingd., IV, 1827, p. 322.

*Capra musmon!* Fisch., Syn. Mamm., 1829, p. 488.

*Ovis musimon occidentalis* Brandt & Ratzeb., Med. Zool., I, 1829, p. 55.

**EUROPEAN MUFLON.**

1. Adult ♂ P. Corsica. J. F. G. Umlauff.

**Genus 86. *Ovibos*.**

***Ovibos*** Blainv., Bull. Soc. Philom. Paris, 1816, p. 76. Type *Bos moschatus* Zimmermann.

**182. *Ovibos moschatus* (Zimmermann).**

*Bos moschatus* Zimm., Geogr. Gesch., II, 1780, p. 86.

*Ovibos moschatus* Blainv., Bull. Soc. Philom. Paris, 1816, p. 76.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 48.



- pl. xxii. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 56. Zoöl. Ser.  
*Ovibos pallantis* H. Smith, Griff. Anim. Kingd., iv, 1827, p. 375.  
*Bos pallasii* De Kay, Ann. N. Y. Lyc. Nat. Hist., ii, 1828, p. 29.  
 (nec Baer, 1823.)  
*Bos canaliculatus* Fisch., Mém. Acad. Mosc., iii, 1834, p. 287.  
*Bubalus moschatus* Owen, Quart. Journ. Geol. Soc., xii, 1856,  
 p. 124.

## MUSK-OX.

1. Adult ♂ P. Great Slave Lake, Arctic America. Ward's Nat. Scien. Establ., Rochester, N. Y.
- 2-3. Adult ♂ P. 160 miles north of Fort Resolution, Great Slave Lake, Arctic America. C. F. Periolat.
- 4-5. Adult ♀ P. 160 miles north of Fort Resolution, Great Slave Lake, Arctic America. C. F. Periolat.
6. Juv. ♀ P. 160 miles north of Fort Resolution, Great Slave Lake, Arctic America. C. F. Periolat.

a. *Ovibos moschatus niphæcus* Elliot.

*Ovibos moschatus niphæcus* Elliot, Proc. Biol. Soc. Wash., xviii, 1905, p. 135. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 56. Zoöl. Ser.

## BLACK MUSK-OX.

- 1-3. Adult ♂ Type & paratypes. P. 600 miles N. of Hudson Bay, Arctic America. Thos. Luce & Co., New Bedford, Mass.
4. Juv. ♂ Paratype. P. 600 miles N. of Hudson Bay, Arctic America. Thos. Luce & Co., New Bedford, Mass.
5. Adult ♀ Paratype. P. 600 miles N. of Hudson Bay, Arctic America. Thos. Luce & Co., New Bedford, Mass.
- 6-7. Juv.—Paratypes. P. 600 miles N. of Hudson Bay, Arctic America. Thos. Luce & Co., New Bedford, Mass.

Genus 87. **Bos.**

**Bos** Linn., Syst. Nat., i, 1758, p. 71. Type *Bos taurus* Linnæus.

183. **Bos mindorensis** (Steere).

*Anoa mindorensis* Steere, Proc. Zoöl. Soc., 1888, p. 413.  
*Probubalus mindorensis* Steere, Proc. Zoöl. Soc., 1888, p. 413.  
*Bubalus mindorensis* Heude, Mém. Hist. Nat. Emp. Chinois, ii, 1888, pp. 4, 50.  
*Bos mindorensis* Lydekk., Roy. Nat. Hist., ii, 1894, p. 206.

**TAMARAU; MINDORO BUFFALO.**

1. Adult ♂ P. Island of Mindoro, Philippines. J. B. Steere.
2. Adult ♀ P. Island of Mindoro, Philippines. J. B. Steere.
3. Juv. ♀ P. Island of Mindoro, Philippines. J. B. Steere.

**184. Bos gaurus H. Smith.**

*Bos gaurus* H. Smith, Griff. Anim. Kingd., IV, 1827, p. 399.

*Bos gour* Hardw., Zoöl. Journ., III, 1828, p. 233.

*Bos gayæus* Hardw., Zoöl. Journ., III, 1828, p. 233.

*Bibos subhemachelus* Hodgs., Journ. Asiat. Soc. Beng., VI, 1837, p. 499.

*Bibos cavifrons* Hodgs., Journ. Asiat. Soc. Beng., VI, 1837, p. 745.

*Bibos asseel* Horsf., Cat. E. Ind. Mus., 1851, p. 181.

*Gavæus gaurus* Blyth, Journ. Asiat. Soc. Beng., XXIX, 1860, p. 282.

**THE GAUR.**

1. Adult ♂ P. S. W. India. Ward's Nat. Scien. Establ., Rochester, N. Y.

**Genus 88. Bison.**

**Bison** H. Smith, Griff. Anim. Kingd., V, 1827, p. 373. Type *Bos bison* Linnæus.

**185. Bison bison (Linnæus).**

*Bos bison* Linn., Syst. Nat., I, 1758, p. 72.

*Bos americanus* Gmel., Syst. Nat., I, 1788, p. 204.

*Bison americanus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 49, pl. XXIII. Zoöl. Ser.

*Bison bison* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Suppl., p. 486. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 57. Zoöl. Ser.

**AMERICAN BISON.**

- 1-2. Adult ♂ Summer coat. P. Nebraska. Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Adult ♀ Summer coat. P. Nebraska. Ward's Nat. Scien. Establ., Rochester, N. Y.
4. Juv. ♂ Summer coat. P. Nebraska. Ward's Nat. Scien. Establ., Rochester, N. Y.
5. Adult ♂ Winter coat. P. Nebraska. Charles Payne.
6. Adult ♀ Exch. Corbyn Herd. Am. Mus. Nat. Hist. N. Y.

7. Juv. — Exch. Corbyn Herd. Am. Mus. Nat. Hist. N. Y.  
 8. Adult ♂ P. Corbyn Herd. New Hampshire. W. Hart.  
 9. Adult ♀ P. Corbyn Herd. New Hampshire. W. Hart.  
 10-12. Juv. ♀ P. Corbyn Herd. New Hampshire. W. Hart.

## SUBORDER II. PERISSODACTYLA.

Family IX. **Tapiridæ. Tapirs.**Genus 89. **Tapirus.**

**Tapirus** Briss., Regn. Anim., 1762, p. 81. Type *Tapirus tapirus*  
 Brisson = *Hippopotamus terrestris* Linnæus, ex Brazil.

*Tapir* Blumenb., Handb. Naturg., I, 1779, p. 129.

*Tapyra* Liais, Climats, Géol., Faun. et Geogr., Botan. Brés.,  
 1872, p. 397.

**186. Tapirus indicus** G. Cuvier.

*Tapirus indicus* G. Cuv., Tabl. Elém. Hist. Nat., 1798, p. 152.

*Tapirus malayanus* Raffles, Trans. Linn. Soc., XIII, 1822, p. 270.

*Tapirus bicolor* Wagn., Schreb. Säugth., Suppl., VI, 1835, p. 400.

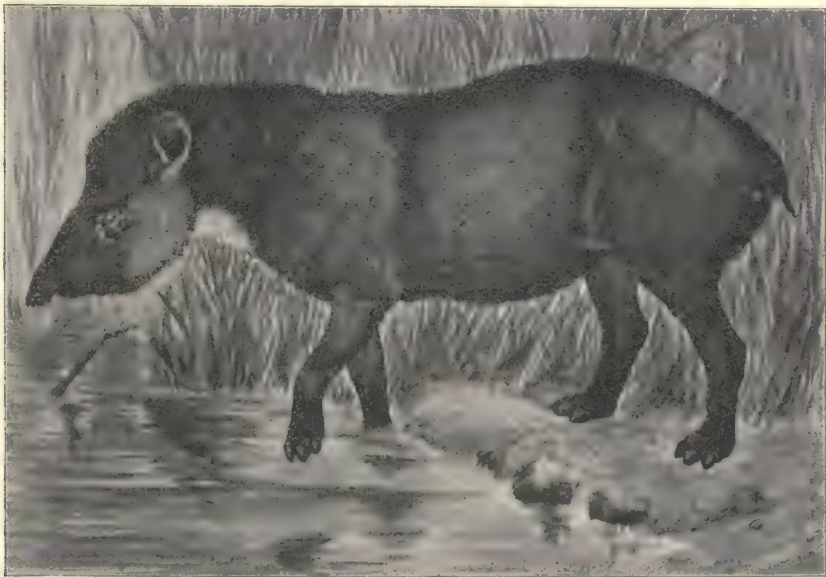


FIG. XXIII. TAPIRELLA DOWI. DOW'S TAPIR.

## MALAY TAPIR.

1. Adult ♂ P. Sumatra. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 90. **Tapirella.**

**Tapirella** Palmer, Science, N. S., xvii, 1903, p. 873. Type *Elasmognathus bairdii* Gill.

187. **Tapirella bairdi** (Gill).

*Elasmognathus bairdii* Gill., Proc. Acad. Nat. Scien. Phil., 1865, p. 183.

*Tapirella bairdi* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 87, pls. xxxvi, xxxvii. Zool. Ser.  
*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 58. Zool. Ser.

## BAIRD'S TAPIR.

- 1-2. Juv. Ad. ♂ Coll. Achotal, State of Vera Cruz, Mexico  
 Heller & Barber.

Family X. **Equidæ. Horses.**Genus 91. **Equus.**

**Equus** Linn., Syst. Nat., i, 1758, p. 73; i, 1766, p. 100. Type *Equus caballus* Linnæus.

a. *Equus burchelli transvaalensis* Ewart.

*Equus burchelli transvaalensis* Ewart, Veterinarian, lxx, 1897, p. 622, fig. 4. W. L. Sclat., Faun. S. Afr., i, 1900, p. 290.

## TRANSSVAAL ZEBRA.

1. Adult ♂ P. Angola, West Africa. Ward's Nat. Scien. Estab., Rochester, N. Y.  
 2-5. Adult ♀ P. Laffleburg District, near Middleburg, Transvaal, S. Africa. E. Gerrard & Sons.  
 6-7. Juv. — P. Laffleburg District, near Middleburg, Transvaal, S. Africa. E. Gerrard & Sons.

b. *Equus burchelli selousi* Pocock.

*Equus chapmani* Lorenz, Ann. K. K. Hofm. Wien, ix, Notiz., 1894, p. 64. (nec Layard.)

*Equus burchelli selousii* Pocock, Ann. Mag. Nat. Hist., 6th Ser., xx, 1897, p. 45. W. L. Sclat., Faun. S. Afr., i, 1900, p. 291.





FIG. XXIV. EQUUS BURCHELLI. BURCHELL'S ZEBRA.

**SELOUS'S ZEBRA.**

1. Adult ♂ P. Hanyani River, Mashonaland, S. Africa. F. C. Selous.

*c. Equus burchelli crawshayi* de Winton.

*Equus burchelli crawshayi* de Winton, Ann. Mag. Nat. Hist., 6th Ser., xvii, 1896, p. 319. W. L. Sclat., Faun. S. Afr., i, 1900, p. 292.

**CRAWSHAY'S ZEBRA.**

1. Adult ♂ P. Beira, Portuguese E. Africa. McEwen & Cabot.

**188. Equus zebra** Linnæus.

*Equus zebra* Linn., Syst. Nat., i, 1758, p. 74.

*Equus montanus* Burch., Trav., i, 1822, p. 139.

*Asinus zebra* Gray, Zool. Journ., i, 1825, p. 248.

*Hippotigris zebra* H. Smith, Jard. Nat. Lib., xii, 1841, p. 324, pl. xxi.

*Equus hartmannæ* Matsch., Sitzungsab. Gesch. Naturf. Freunde, Berlin, 1898, p. 174.

## MOUNTAIN ZEBRA.

1. Adult ♀ P. South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

189. *Equus grevyi* A. Milne-Edwards.

- Equus grevyi* A. Milne-Edwards, La Nature, x, 1882, p. 12, fig. 1.  
Pocock, Ann. Mag. Nat. Hist., 6th Ser., xx, 1897, p. 48.

## GREVY'S ZEBRA.

1. Adult ♂ P. Lake Rudolph, Africa. A. H. Neuman.
2. Adult ♀ P. Somaliland, E. Africa. E. Gerrard & Sons.

190. *Equus hemionus* Pallas.

- Equus hemionus* Pall., Nov. Comm. Acad. Petrop., xix, 1775,  
p. 394, pl. vii, et Auct.  
*Asinus equioides* Hodgs., Journ. Asiat. Soc. Beng., xi, 1842, p. 287.  
*Asinus polyodon* Hodgs., Calc. Journ. Nat. Hist., vii, 1847, p. 469,  
pl. vi.  
*Equus hemippus* Is. Geoff., Comptes Rend., xli, 1855, p. 1214.

## ASIATIC WILD ASS.

1. Adult ♂ P. Tibet. R. Gordon Cotton.

a. *Equus asinus somalicus* Sclater.

- Equus asinus somalicus* Sclat., Proc. Zool. Soc., 1884, p. 540,  
pl. L. Elliot, Pub. Field Columb. Mus., i, 1897, p. 139. Zool.  
Ser.

SOMALI WILD ASS. *Gumburi* in Somali.

1. Adult ♂ Coll. Las-dero Durban, Somaliland, E. Africa. D. G. Elliot.
2. Adult ♀ Coll. Las-dero Durban, Somaliland, E. Africa. D. G. Elliot.
3. Adult ♂ Coll. Haili, Somaliland, E. Africa. D. G. Elliot.
4. Juv. ♂ Coll. Laferug, Somaliland, E. Africa. D. G. Elliot.

Family XI. **Rhinocerotidæ. Rhinoceroses.**Genus 92. **Rhinoceros.**

**Rhinoceros** Linn., Syst. Nat., i, 1758, p. 56. Type *Rhinoceros unicornis* Linnæus.

*Atelodus* Pomel, Ann. Soc. Lit. Auvergne, xxvi, 1853, p. 114.

*Rhinaster* Gray, in Gerr. Cat. Bones Brit. Mus., 1862, p. 282.  
(nec Wagler, 1830.)

*Ceratorhinus* Gray, Proc. Zool. Soc., 1867, p. 1021.

*Ceratotherium* Gray, Proc. Zool. Soc., 1867, p. 1027.

*Dihoplus* Brandt, Mém. Acad. Imp. Scien. St. Pétersb., viime Sér., xxvi, 1878, p. 48.

*Zalabis* Cope, Bull. U. S. Geol. & Geogr. Surv. Terr., v, No. 2, 1879, p. 229.

**191. *Rhinoceros sumatrensis* Cuvier.**

*Rhinoceros sumatrensis* Cuvier, Rég. Anim., 1817, p. 240. Sclat., Proc. Zoöl. Soc., 1872, p. 790. *Id.* Trans. Zoöl. Soc., ix, p. 650, pl. xcvi.

*Rhinoceros crossii* Gray, Proc. Zoöl. Soc., 1854, p. 250, fig.

*Ceratorhinus sumatranus* Gray, Cat. Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 313.

**SUMATRAN RHINOCEROS.**

1. Adult ♂ P. Sumatra. F. W. Franklin.



FIG. XXV. RHINOCEROS SUMATRENSIS. SUMATRAN RHINOCEROS.

**SUBORDER III. HYRACOIDEA.**

**Family XII. Procaviidæ.**

**Genus 93. Procavia.**

**Procavia** Storr, Prodr. Meth. Mamm., 1780, p. 40, tab. B. Type *Cavia capensis* Pallas.

*Hyrax* Herm., Tab. Affinit. Anim., 1783, p. 115.

*Euhyrax* Gray, Ann. Mag. Nat. Hist., 4th Ser., 1, 1868, p. 46.

*Dendrohyrax* Gray, Ann. Mag. Nat. Hist., 4th Ser., 1, 1868, p. 48.

*Heterohyrax* Gray, Ann. Mag. Nat. Hist., 4th Ser., 1, 1868, p. 50.

**192. *Procavia capensis* (Pallas).**

*Cavia capensis* Pall., Misc. Zool., 1766, p. 30.

*Hyrax semicircularis* Gray, Cat. Carniv. Pachyderm. & Edent.  
Mamm. Brit. Mus., 1869, p. 285.

*Procavia capensis* Thos., Proc. Zool. Soc., 1892, p. 60.

**CAPE CONEY.**

1. Adult — P. South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

**a. *Procavia brucei somalica* Thomas.**

*Procavia brucei somalica* Thos., Proc. Zool. Soc., 1892, p. 71.

Elliot, Pub. Field Columb. Mus., 1, 1897, p. 140. Zool. Ser.

**SOMALI CONEY.**

1. Adult ♂ Coll. Adadleh, Somaliland, E. Africa. D. G. Elliot.

**SUBORDER IV. PROBOSCIDEA.**

**Family XIII. Elephantidæ. Elephants.**

**Genus 94. Elephas.**

**Elephas** Linn., Syst. Nat., 1, 1758, p. 33. Type *Elephas maximus*  
Linnæus.

**193. *Elephas maximus* Linnæus.**

*Elephas maximus* Linn., Syst. Nat., 1, 1758, p. 33, ex Ceylon.

*Elephas indicus* Cuv., Règn. Anim., 1, 1817, p. 231.

*Elephas sumatranus* Temm., Coup-d'œil Poss. Néerland., 11, 1847,  
p. 91.

**INDIAN ELEPHANT.**

1. Adult ♂ P. Southern India. W. Hornaday.
2. Juv. ♂ P. Southern India. W. Hornaday.



Order VI. **Rodentia. Rodents.**

SUBORDER I. SIMPLICIDENTATA

Family I. **Anomaluridæ.**

Subfamily I. **Anomalurinae.**

Genus 95. **Anomalurus.**

**Anomalurus** Waterh., Proc. Zool. Soc., 1842, p. 124. Type *Anomalurus fraseri* Waterhouse.

**194. Anomalurus pelii** Temminck.

*Anomalurus pelii* Temm., Verhand. over de Nat. Geschied der Nederl. Bezitt., 1, 1845, p. 108.

**PEL'S FLYING SQUIRREL.**

1. Adult — P. West Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

**195. Anomalurus beecrofti** Fraser.

*Anomalurus beecrofti* Fras., Proc. Zool. Soc., 1852, p. 17.

**BEECROFT'S FLYING SQUIRREL.**

1. Adult ♀ P. Benito River, W. Africa. G. L. Bates.

**196. Anomalurus erythronotus** A. Milne-Edwards.

*Anomalurus erythronotus* A. Milne-Edw., Compt. Rend., LXXXIX, 1879, p. 771.

**RED-BACKED FLYING SQUIRREL.**

1. Adult ♀ P. Benito River, West Africa. G. L. Bates.

Family II. **Sciuridæ. Squirrels, Chipmunks, etc.**

Subfamily I. **[Nannosciurinae.**

Genus 96. **Nannosciurus.**

**Nannosciurus** Trouess., Le Natural., 11, No. 37, 1880, p. 292. Type *Sciurus melanotis* Müller & Schlegel.

**197. Nannosciurus whiteheadi** Thomas.

*Sciurus whiteheadi* Thos., Ann. Mag. Nat. Hist., 3rd Ser., xx 1867, p. 127. *Id.* Proc. Zool. Soc., 1889, p. 231, pl. xxiv.

## WHITEHEAD'S PIGMY SQUIRREL.

1. Adult — Topotype. P. Kina Balu, Borneo. E. Gerrard & Sons. A. Everett.

Subfamily II. **Sciurinae.**Genus 97. **Protoxerus.**

**Protoxerus** F.-Major, Proc. Zool. Soc., 1893, p. 189, pl. VIII, figs. 7-8. Type *Sciurus stangeri* Waterhouse.

**198. Protoxerus stangeri** (Waterhouse).

*Sciurus stangeri* Waterh., Proc. Zool. Soc., 1842, p. 127.

*Sciurus caniceps* Temm., Esquiss. Zool., 1853, p. 127.

*Macroxus stangeri* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p.

\* *Sciurus nordhoffi* Du Chaillu, Proc. Bost. Soc. Nat. Hist., 1860, p. 363.

*Sciurus eborivorus* Du Chaillu, Proc. Bost. Soc. Nat. Hist., 1860, p. 363.

*Sciurus subalbidus* Du Chaillu, Proc. Bost. Soc. Nat. Hist., 1860, p. 365.

*Sciurus temminckii* Anders., Zool. Exped. W. Yunan, 1878, p. 229. (note.)

*Heliosciurus stangeri* Trouess., Cat. Mamm. Viv. quam Foss., Suppl., 1904, p. 301.

## STANGER'S SQUIRREL.

1. Adult ♀ P. Benito River, W. Africa. E. Gerrard & Sons. G. L. Bates.
2. Adult — P. Batuga, Cameroons, W. Africa. C. W. McCleary.

Genus 98. **Xerus.**

**Xerus** Hempr. & Ehrenb., Symb. Phys., Mamm., 1, 1832, Sig. ee, pl. ix. Type *Sciurus (Xerus) brachyotus* Hemprich & Ehrenberg.

*Geosciurus* A. Smith, S. Afric. Quart. Jour., 11, No. 2, 1834, p. 128.

*Atlantoxerus* F.-Major, Proc. Zool. Soc., 1893, p. 189, pl. VIII, fig. 9, pl. IX, fig. 9.

\*See de Winton, Ann. Mag. Nat. Hist., 7th Ser., 11, 1898, pp. 11, 12.

Subgenus A. **Xerus**.**199. Xerus rutilus** (Cretzschmar).

*Sciurus rutilus* Cretzschm., Rüpp. Atl. Reis. Nordl. Afr., I, 1826, p. 59.

*Spermosciurus simplex* Less., Hist. Nat. Mamm., v, 1836, p. 402.

*Xerus dabagala* Heugl., Peterm. Mittheil., 1861, p. 17.

*Xerus flavus* A. Milne-Edw., Rev. Mag. Zool., 1867, p. 229.

*Xerus fuscus* Huet, Nouv. Archiv. Mus. Paris, 2me Sér., 1880, pl. VI, fig. 1.

*Xerus rutilus* Jent., Notes Leyd. Mus., IV, 1882, p. 41. Elliot, Pub. Field Columb. Mus., I, 1897, p. 141. Zoöl. Ser.

**RED SPINY SQUIRREL.**

1. Adult ♂ Coll. Laferug, Somaliland, E. Africa. D. G. Elliot.

2. Adult ♀ Coll. Laferug, Somaliland, E. Africa. D. G. Elliot.

3-4. Adult ♂ Coll. Hulleh, Somaliland, E. Africa. D. G. Elliot.

5. Adult ♀ Coll. Hulleh, Somaliland, E. Africa. D. G. Elliot.

Genus 99. **Funisciurus**.

**Funisciurus** Trouess., Le Natural., II, No. 37, 1880, p. 293. Type *Sciurus lemniscatus* Leconte.

**200. Funisciurus mystax** de Winton.

*Funisciurus mystax* de Winton, Ann. Mag. Nat. Hist., 7th Ser., II, 1898, p. 9, fig. 3.

**MYSTERIOUS SQUIRREL.**

1. Adult ♀ P. Benito River, W. Africa. E. Gerrard & Sons. G. L. Bates.

**201. Funisciurus pyrrhopus** (F. Cuvier).

*Sciurus pyrropus*! F. Cuv., Hist. Nat. Mamm., 1833, pl. 240.

*Sciurus erythrogenys* Waterh., Proc. Zoöl. Soc., 1842, p. 129. Fras., Zool. Typica, 1849, p. 25.

\**Sciurus leucogenys* Waterh., Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 202.

*Sciurus rubripes* Du Chaillu, Proc. Bost. Soc. Nat. Hist., 1860, p. 366.

*Macroxus pyrrhopus* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 330. (Part.)

\*Said to be a good species. See Thos., Ann. Mag. Nat. Hist., 7th Ser., XI, 1903, p. 81.

*Funambulus poensis* Fitzin., Sitzungsab. K. Akad. Wiss. Wien, LVI, 1867, p. 34.

*Heliosciurus pyrrhopus* Trouess., Cat. Rong. viv. et foss., 1881, p. 83.

FERNANDO PO SQUIRREL.

1. Adult ♂ P. Benito River, W. Africa. G. L. Bates.

2. Adult — P. Island of Fernando Po? E. Gerrard & Sons.

202. *Funisciurus poensis* (A. Smith).

*Sciurus poensis* A. Smith, S. Afr. Quart. Journ., XI, 1839, p. 64.

Huet, Nouv. Archiv. Mus. Paris, 1880, p. 149, pl. VII, fig. 1.

Jent., Notes Leyd. Mus., IV, 1882, p. 28.

*Sciurus olivaceus* A. Milne-Edw., Rev. Zool., 1867, p. 228.

*Macroxus poensis* Gray, Ann. Mag. Nat. Hist., 3rd Ser., XX, 1867, p. 329.

*Funambulus poensis* Fitzin., Sitzungsab. K. Akad. Wiss. Wien, LVI, 1867, p. 34. (Part.)

*Heliosciurus poensis* Trouess., Cat. Rong. viv. et foss., 1881, p. 84.

BENITO RIVER SQUIRREL.

1. Adult ♂ P. Benito River, W. Africa. G. L. Bates.

203. *Funisciurus palliatus* (Peters).

*Sciurus palliatus* Peters, Monatsab. Preuss. Akad. Wiss. Berl., 1852, p. 273.

*Sciurus ornatus* Gray, Proc. Zool. Soc., 1864, p. 13, pl. 1.

*Macroxus annulatus* var. *frerei* Gray, Ann. Mag. Nat. Hist., 4th Ser., XII, 1873, p. 265.

*Heliosciurus palliatus* Trouess., Cat. Rong. viv. et foss., 1881, p. 83.

PROTECTED SQUIRREL.

1. Adult — P. Natal, S. Africa. E. Gerrard & Sons.

a. *Funisciurus lemniscatus isabella* (Gray).

*Sciurus isabella* Gray, Proc. Zool. Soc., 1862, p. 180.

*Sciurus sharpii* Gray, Ann. Mag. Nat. Hist., 4th Ser., XII, 1873, p. 265.

ISABELLA SQUIRREL.

1. Adult ♂ P. Cameroons, Africa. E. Gerrard & Sons.

Genus 100. **Funambulus.**

**Funambulus** Less., Illust. Zool., 1832, pl. 43, text. Type *Funambulus indicus* Lesson = *Sciurus palmarum* Linnæus.



*Rhinosciurus* Gray, List Spec. Mamm. Brit. Mus., 1843, pp. xxv, 195.

*Laria* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 276.

*Palmista* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 279.

*Eoxerus* F.-Major, Proc. Zool. Soc., 1893, p. 189, pl. VIII, figs. 5-6, 11-12, 16-18; pl. IX, figs. 5-6, 11-12, 16-18.

Subgenus A. *Rhinosciurus*.

**204. *Funambulus laticaudatus*** (Müller & Schlegel).

*Sciurus laticaudatus* Müll. & Schleg., Verhandl. over de Natuur. Gesch. etc., Zool., 1839, p. 100, pl. xv, figs. 1-3.

*Rhinosciurus tupaoides* (sic) Gray, Ann. Mag. Nat. Hist., 3rd. Ser., xx, 1867, p. 286.

LONG-NOSED SQUIRREL.

1. Adult — P. Braiung Hill, Lawas District, N. Borneo. E. Gerrard & Sons.

**205. *Funambulus everetti*** (Thomas).

*Sciurus everetti* Thos., Ann. Mag. Nat. Hist., 6th Ser., vi, 1890, p. 171.

EVERETT'S SQUIRREL.

1. Adult — P. Kina Balu, Borneo. E. Gerrard & Sons. A. Everett.

Subgenus B. *Laria*.

**206. *Funambulus insignis*** (F. Cuvier).

*Sciurus insignis* F. Cuv., Hist. Nat. Mamm., 1821, pl. 233.

CHIEF SQUIRREL.

1. Adult ♂ P. Sumatra. E. Gerrard & Sons.

*a. Funambulus insignis diversus* Thomas.

*Funambulus insignis diversus* Thos., Ann. Mag. Nat. Hist., 7th Ser., II, 1898, p. 248.

THOMAS'S CHIEF SQUIRREL.

1. Adult ♂ P. Gunong Mulu, Borneo. E. Gerrard & Sons. A. Everett.

*a. Funambulus maccllellandi formosanus* (Bonhote).

*Sciurus maccllellandi formosanus* Bonh., Ann. Mag. Nat. Hist., 7th Ser., v, 1900, p. 52.

STRIPED HIMALAYAN SQUIRREL.

1. Adult — P. Island of Formosa. E. Gerrard & Sons.

*b. Funambulus maclellandi barbii* (Blyth).

*Sciurus barbei* Blyth, Jour. Asiat. Soc. Beng., xvi, 1847, p. 875,  
pl. xxxvi, fig. 3.

PALE-STRIPED SQUIRREL.

1. Adult ♀ P. Tavoy, British Burma. W. Davison.

Subgenus C. *Palmista*.

207. *Funambulus palmarum* (Linnæus).

*Sciurus palmarum* Linn., Syst. Nat., 1, 1766, p. 86.

*Sciurus penicillatus* Leach, Zool. Misc., 1, 1814, p. 6, pl. 1.

*Funambulus indicus* Less., Illust. Zool., 1832, pl. xliii.

*Sciurus brodei* Blyth, Jour. Asiat. Soc. Beng., xviii, 1849, p. 602.

*Sciurus kelaarti* Layd., Blyth, Jour. Asiat. Soc. Beng., xx, 1851,  
p. 166.

PALM SQUIRREL.

1. Adult — P. Coinbatore, India. Ward's Nat. Scien. Establ.,  
Rochester, N. Y.

Genus 101. *Ratufa*.

*Ratufa* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 273.

Type *Sciurus indicus* Erxleben.

*Rukia* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 275.

*Eosciurus* Trouess., Le Natural., 11, No. 37, 1880, p. 291.

Subgenus A. *Ratufa*.

208. *Ratufa indica* (Erxleben).

*Sciurus indicus* Erxl., Syst. Regn. Anim., 1777, p. 420.

*Sciurus purpureus* Zimm., Spec. Zool. Geogr. Quad., 1777, p. 518.

*Sciurus elphinstonii* Sykes, Proc. Zool. Soc., 1831, p. 103.

LARGE INDIAN SQUIRREL.

1. Adult — P. Neilgherry Hills, India. Ward's Nat. Scien.  
Establ., Rochester, N. Y.

*a. Ratufa indica maxima* (Schreber).

*Sciurus maximus* Schreb., Säugth., iv, 1785, p. 784, pl. ccxvii  
(1784).

*Sciurus malabaricus* Scop., Del. Flor. Faun. Insub., 11, 1786, p. 85.

GREAT MALABAR SQUIRREL.

1. Adult — P. Central India. Ward's Nat. Scien. Establ.,  
Rochester, N. Y.

Subgenus B. *Rukaia*.**209. Ratufa bicolor (Sparrman).**

*Sciurus bicolor* Sparrm., Götheb. Vet. Svensk. Handl., 1, 1778,  
p. 70.

## GREAT MALAY SQUIRREL.

1. Adult — P. Sarawak, Borneo. Ward's Nat. Scien. Establ.,  
Rochester, N. Y.
- 2-3. Adult — P. Sumatra. E. Gerrard & Sons.
4. Adult — P. Malacca. E. Gerrard & Sons. V. A. Brooke.

**210. Ratufa ephippium (Müller).**

*Sciurus ephippium* Müll., Tijd. voor Nat. Gesch., 1839, p. 147.

## GREAT BORNEAN SQUIRREL.

1. Adult — P. Borneo. E. Gerrard & Sons. S. Müller.
- a. *Ratufa ephippium bunguranensis* (Thomas & Hartert).  
*Sciurus ephippium bunguranensis* Thos. & Hart., Novitat. Zool., 1,  
1894, p. 658.

## BUNGURAN ISLAND SQUIRREL.

1. Adult — P. Bunguran Island. E. Gerrard & Sons.
- b. *Ratufa ephippium sandakanensis* Bonhote.  
*Sciurus bicolor ephippium* Thos., Proc. Zoöl. Soc., 1889, p. 230.  
(nec Müller.)  
*Ratufa ephippium sandakanensis* Bonh., Ann. Mag. Nat. Hist.,  
7th Ser., v, 1900, p. 497.

## SANDAKAN GREAT SQUIRREL.

1. Adult — P. Paitan, N. Borneo. E. Gerrard & Sons. A.  
Everett.

**211. Ratufa macrura (Pennant).**

*Sciurus macrourus* Penn., Ind. Zoöl., Pt. 1, 1769, pl. 1.  
*Sciurus ceylonicus* Erxl., Syst. Regn. Anim., 1777, p. 416.  
*Sciurus tennantii* Layd., Blyth, Jour. Asiat. Soc. Beng., xviii,  
1849, p. 600.

## GRIZZLED INDIAN SQUIRREL.

1. Adult — The *R. tennantii* black var. P. Ceylon. E. Gerrard  
& Sons.

Genus 102. **Sciurus. Tree Squirrels.**

**Sciurus** Linn., Syst. Nat., 1, 1758, p. 63. Type *Sciurus vulgaris* Lin-  
næus.

*Guerlinguetus* Gray, Lond. Med. Repos., xv, 1821, p. 304.

- Macroxus* F. Cuv., Dents des Mamm., 1823, p. 162, pl. 56.  
*Rheithrosciurus* (sic) Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 272.  
*Callosciurus* Gray, Ann. Mag. Nat. Hist., 3d Ser., xx, 1867, p. 277.  
*Baginia* Gray, Ann. Mag. Nat. Hist., 3d Ser., xx, 1867, p. 279.  
*Erythrosciurus* Gray, Ann. Mag. Nat. Hist., 3d Ser., xx, 1867, p. 285.  
*Neosciurus* Trouess., Le Natural., II, 1880, p. 292.  
*Parasciurus* Trouess., Le Natural., II, 1880, p. 292.  
*Echinosciurus* Trouess., Le Natural., II, 1880, p. 292.  
*Tamiasciurus* Trouess., Le Natural., II, 1880, p. 292.  
*Heliosciurus* Trouess., Le Natural., II, 1880, p. 292.  
*Tunisciurus* Trouess., Le Natural., II, 1880, p. 293.  
*Microsciurus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 332.  
*Hesperosciurus* Nelson, Proc. Wash. Acad. Scien., I, 1899, p. 27.  
*Otosciurus* Nelson, Proc. Wash. Acad. Scien., I, 1899, p. 28.  
*Aræosciurus* Nelson, Proc. Wash. Acad. Scien., I, 1899, p. 29.  
*Baiosciurus* Nelson, Proc. Wash. Acad. Scien., I, 1899, p. 31.

Subgenus A. *Baiosciurus*.

212. *Sciurus deppii* Peters.

- Sciurus deppii* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1863, p. 654.  
*Sciurus griseogena* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 429.  
*Sciurus tephrogaster* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 431.  
*Sciurus tæniurus* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 431.  
*Sciurus deppii* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 101, fig. 14. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 60. Zool. Ser.

DEPPE'S SQUIRREL.

1. Adult — Exch. Mexico. Am. Mus. Nat. Hist. N. Y.  
 2-4. Adult ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.  
 5-6. Adult ♀ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.



Subgenus B. *Sciurus*.**213. *Sciurus vulgaris* Linnæus.**

*Sciurus vulgaris* Linn., Syst. Nat., 1, 1758, p. 63.

*Sciurus italicus* Bonap., Faun. Ital., 1838, fasc. 23, pl.

*Sciurus europæus* Gray, List Spec. Mamm. Brit. Mus., 1843, p.

139.

## EUROPEAN SQUIRREL.

1. Adult ♀ P. Upsala, Sweden. J. A. Loring.
2. Adult ♂ P. Upsala, Sweden. J. A. Loring.
- 3-4. Adult ♂ P. Meiringen, Switzerland. J. A. Loring.
5. Adult ♀ P. Meiringen, Switzerland. J. A. Loring.
6. Adult ♂ P. Brunig, Switzerland. J. A. Loring.
7. Adult ♀ P. Brunig, Switzerland. J. A. Loring.
8. Adult — P. France. Ward's Nat. Scien. Establ., Rochester, N. Y.

**214. *Sciurus lis* Temminck.**

*Sciurus lis* Temm., Faun. Japon., 1842, p. 45, pl. XII, figs. 1-4.

Jent., Notes Leyd. Mus., v, 1883, p. 115.

## JAPANESE SQUIRREL.

1. Adult ♂ P. Japan. Ward's Nat. Scien. Establ., Rochester, N. Y.

**215. *Sciurus rufobrachiatus* Waterhouse.**

*Sciurus rufobrachiatus* Waterh., Proc. Zoöl. Soc., 1842, p. 128.

*Sciurus maculatus* Temm., Esquiss. Zool., 1re Part., 1853, p. 130.

*Sciurus aubryi* A. Milne-Edw., Rev. Mag. Zool., 1867, p. 228.

*Macroxus rufobrachiatus* Gray, Ann. Mag. Nat. Hist., 3rd. Ser.,  
xx, 1867, p. 329.

*Funambulus rufobrachium* Fitzin., Sitzungsab. K. Akad. Wissen.  
Wien, 1867, p. 33.

## RED-ARM SQUIRREL.

1. Adult ♂ P. Benito River, West Africa. E. Gerrard & Sons.  
G. L. Bates.

**216. *Sciurus punctatus* Temminck.**

*Sciurus punctatus* Temm., Esquiss. Zool., 1853, p. 138. Jent.,  
Notes Leyd. Mus., iv, 1882, p. 21.

*Sciurus rufobrachiatus* Huet, Nouv. Archiv. Mus. Hist. Nat.  
Paris, 1880, p. 144. (Part.)

## SPOTTED SQUIRREL.

1. Adult — P. West Africa. E. Gerrard & Sons.

Subgenus C. **Macroxus.***a. Sciurus erythræus punctatissimus* (Gray).

*Macroxus punctatissimus* Gray, Ann. Mag. Nat. Hist., 3rd Ser.  
xx, 1867, p. 283.

## GRAY'S SQUIRREL.

1. Adult — P. S. India. E. Gerrard & Sons.

**217. Sciurus rubriventer** Müller & Schlegel.

*Sciurus rubriventer* (Forst.) Müll. & Schleg., Temm. Verhandl.  
over de Natuur. Ges. Nederl., 1839-1844, p. 86. Jent., Notes  
Leyd. Mus., v, 1883, p. 128.

## RED-BELLIED SQUIRREL.

1. Adult ♂ P. Tannya, Celebes. E. Gerrard & Sons.

**218. Sciurus castaneiventris** Gray.

*Sciurus castaneiventris* Gray, Ann. Mag. Nat. Hist., 1st Ser., x,  
1842, p. 263.

*Sciurus griseopectus* Blyth, Jour. Asiat. Soc. Beng., xvi, 1847,  
p. 873.

*Sciurus erythræus* Swinh., Proc. Zool. Soc., 1862, p. 357. (Part.)

## CHESTNUT-BELLIED SQUIRREL.

1. Adult — P. China. E. Gerrard & Sons.

*a. Sciurus castaneiventris ningpoensis* Bonhote.

*Sciurus castaneiventris ningpoensis* Bonhote, Ann. Mag. Nat.  
Hist., 7th Ser., vii, 1901, p. 163.

## NINGPO VINOUS-BELLIED SQUIRREL.

1. Adult ♀ P. Ningpo, China. E. Gerrard & Sons.

**219. Sciurus flavimanus** Is. Geoffroy.

*Sciurus flavimanus* Is. Geoffroy, Mag. Zool., 1832, p. 1.

## YELLOW-HANDED SQUIRREL.

1. Adult ♂ P. Kan Raryit, Brit. Burma. E. Gerrard & Sons.  
T. Darling, Jr.

**220. Sciurus hippurus** Is. Geoffroy.

*Sciurus hippurus* I. Geoff., Étud. Zool., i, 1832, pl. 6. Jent.,  
Notes Leyd. Mus., v, 1883, p. 118.

*Sciurus rufogaster* Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842,  
p. 263.

## HEAVY-TAILED SQUIRREL.

1. Adult ♀ P. Baram, Borneo. E. Gerrard & Sons. A. Ev-  
erett.

*a. Sciurus hippurus grayi* Bonhote.

*Sciurus hippurus grayi* Bonh., Ann. Mag. Nat. Hist., 7th Ser., VII, 1901, p. 171, (note).

GRAY'S BORNEAN SQUIRREL.

1. Adult ♂ P. Lawas District, Borneo. E. Gerrard & Sons. A. Everett.

**221. *Sciurus pryeri* Thomas.**

*Sciurus pryeri* Thos., Ann. Mag. Nat. Hist., 6th Ser., x, 1892, p. 214.

PRYER'S SQUIRREL.

1. Adult — P. Bongon, Borneo. E. Gerrard & Sons. A. Everett.

**222. *Sciurus vittatus* Raffles.**

*Sciurus vittatus* Raffles, Trans. Linn. Soc., XIII, 1822, p. 259.

*Sciurus bivittatus* Desm., Mamm., Suppl., 1822, p. 543.

*Macroxus vittatus* F. Cuv., Hist. Nat. Mamm., 1824, pl. CCXXXIV.

*Macroxus toupai* Less., Man. Mamm., 1827, p. 238.

*Sciurus badging* Kerr, Thos., Proc. Zool. Soc., 1886, p. 76.

\**Sciurus notatus* Bodd., Thos., Proc. Zool. Soc., 1889, p. 231. (Part.)

*Sciurus notatus miniatus* Miller, Proc. Wash. Acad. Scien., II, 1900, p. 79.

*Sciurus vittatus typicus* Bonh., Ann. Mag. Nat. Hist., 7th Ser., VII, 1901, p. 447.

STRIPED SQUIRREL.

1. Adult — P. Sumatra. E. Gerrard & Sons.
2. Adult ♂ P. Malacca. E. Gerrard & Sons.
3. Adult ♂ P. Malacca. E. Gerrard & Sons. A. R. Wallace.
4. Adult — P. Malacca. Ward's Nat. Scien. Establ., Rochester, N. Y.

**223. *Sciurus nigrivittatus* Horsfield.**

*Sciurus nigrovittatus* Horsf., Zool. Res. Java, 1824, p.

BLACK-STRIPED SQUIRREL.

1. Adult — P. Sumatra. E. Gerrard & Sons.
2. Adult — P. Singapore. E. Gerrard & Sons.
3. Adult ♀ P. Badging, India. E. Gerrard & Sons. H. O. Forbes.

**224. *Sciurus brookii* Thomas.**

*Sciurus brookei* Thos., Ann. Mag. Nat. Hist., 6th Ser., ix, 1892, p. 253.

BROOKE'S SQUIRREL.

1. Adult — P. Lawas Mountains, Borneo. E. Gerrard & Sons.

\*True *S. notatus* appears to be restricted exclusively to Java.

**225. *Sciurus lowii* Thomas.**

*Sciurus lowii* Thos., Ann. Mag. Nat. Hist., 6th Ser., ix, 1892  
p. 253.

## LOWE'S SQUIRREL.

1. Adult — P. Paitan, N. Borneo. E. Gerrard & Sons. A. Everett.

**226. *Sciurus jentinki* Thomas.**

*Sciurus jentinki* Thos., Ann. Mag. Nat. Hist., 5th Ser., xx, 1887,  
p. 138.

## JENTINK'S SQUIRREL.

1. Adult — P. Kina Balu, Borneo. E. Gerrard & Sons. A. Everett.

**227. *Sciurus leucomus* Müller & Schlegel.**

*Sciurus leucomus* Müll. & Schleg., Verhandl. over de Natuur.  
Gesch. Nederl., 1839, p. 87. Jent., Notes Leyd. Mus., v,  
1883, p. 251.

## CELEBES SQUIRREL.

1. Adult ♂ P. Rosokan, Celebes. E. Gerrard & Sons. E. & C. Hose.

**228. *Sciurus steerii* Günther.**

*Sciurus steerii* Günth., Proc. Zool. Soc., 1876, p. 735.

## STEEER'S SQUIRREL.

1. Adult ♂ P. Paragoa, Philippines. J. B. Steere.
2. Adult — P. Paragoa, Philippines. J. B. Steere.

**229. *Sciurus samarensis* Steere.**

*Sciurus samarensis* Steere, List Birds & Mamm. Philipp., 1890,  
p. 29. Meyer, Abh.-Ber. Zool. Mus. Dresd., 1896, p. 28, pl. xi,  
fig. 2.

## ISLAND OF SAMAR SQUIRREL.

1. Adult ♀ Type, No. 1080. P. Island of Samar, Philippines. J. B. Steere.
2. Adult ♀ Paratype. P. Island of Samar, Philippines. J. B. Steere.

**230. *Sciurus mindanensis* Steere.**

*Sciurus mindanensis* Steere, List Birds & Mamm. Philipp., 1890,  
p. 29. Jent., Notes Leyd. Mus., v, 1883, p. 129.

## ISLAND OF MINDANAO SQUIRREL.

1. Adult — Type, No. 1077. P. Island of Mindanao, Philippines. J. B. Steere.
2. Adult — Paratype P. Island of Mindanao, Philippines. J. B. Steere.



Subgenus D. *Callosciurus*.**231. *Sciurus prevosti* Desmarest.***Sciurus prevostii* Desm., Mamm., 1822, p. 335.

## PREVOST'S SQUIRREL.

1. Adult — P. Malacca. Ward's Nat. Scien. Establ., Rochester, N. Y.

2-3. Adult ♀ P. Malacca. E. Gerrard &amp; Sons.

*a. Sciurus prevosti borneensis* Müller & Schlegel.*Sciurus prevostii* var. *borneoensis* Müll. & Schleg., Verhandl. over de Natuur. Gesch. Nederl., 1839-44, p. 86.

## BORNEAN PREVOST SQUIRREL.

1. Adult — P. Batu Sang, Borneo. E. Gerrard &amp; Sons. E. Hose.

*b. Sciurus prevosti kuchingensis* Bonhote.*Sciurus prevostii kuchingensis* Bonh., Ann. Mag. Nat. Hist., 7th Ser., VII, 1901, p. 170.

## KUCHING PREVOST SQUIRREL.

1. Adult — P. Penrisen Hills. E. Gerrard &amp; Sons. A. Everett.

**232. *Sciurus caroli* Bonhote.***Sciurus prevostii* Desm., Hose's Mamm. Borneo, 1893, p. 45. (Part.)*Sciurus caroli* Bonh., Ann. Mag. Nat. Hist., 7th Ser., VII, 1901, p. 173.

## HOSE'S SQUIRREL.

1. Adult ♀ P. Iniri River, Sarawak, Borneo. E. Gerrard &amp; Sons. C. Hose.

*a. Sciurus caroli griseicauda* Bonhote.*Sciurus caroli griseicauda* Bonh., Ann. Mag. Nat. Hist., 7th Ser., VII, 1901, p. 174.

## GRAY-TAILED SQUIRREL.

1. Adult ♀ P. Batu Sang, Borneo. E. Gerrard &amp; Sons. C. Hose.

**233. *Sciurus baluensis* Bonhote.***Sciurus baluensis* Bonh., Ann. Mag. Nat. Hist., 7th Ser., VII, 1901, p. 174.

## MOUNT KINA BALU SQUIRREL.

1. Adult ♀ Topotype. P. Mount Kina Balu, Borneo. E. Gerrard &amp; Sons. A. Everett.

*a. Sciurus rufoniger pluto* (Gray).*Macroxus pluto* Gray, Ann. Mag. Nat. Hist., 3d. Ser., xx, 1867, p. 283.

## BLACK SQUIRREL.

1. Adult ♂ P. Labuan, Borneo. E. Gerrard & Sons. A. Everett.
2. Adult — P. Malingai Mt., Borneo. E. Gerrard & Sons. A. Everett.
3. Adult ♂ P. Bongon, N. Borneo. E. Gerrard & Sons. A. Everett.

Subgenus E. *Erythrosciurus*.234. *Sciurus finlaysoni* Horsfield.

*Sciurus finlaysoni* Horsf., Zoöl. Res. Java, 1824.

*Sciurus splendens* Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 62.

## FINLAYSON'S SQUIRREL.

1. Adult — P. Sanga Island. E. Gerrard & Sons.

This specimen is apparently of the *S. harmandi* style with a tendency to red beneath.

Subgenus F. *Baginia*.235. *Sciurus locrioides* Hodgson.

*Sciurus lokrioides* Hodg., Jour. Asiat. Soc. Beng., v, 1836, p. 332.

Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 274.

*Sciurus locrioides* Hodg., Jour. Asiat. Soc. Beng., x, p. 915.

*Sciurus assamensis* McClell., apud Gray, List Spec. Mamm. Brit. Mus., 1843, p. 143. (desc. nulla.)

*Sciurus blythii* Tytler, Ann. Mag. Nat. Hist., 2nd Ser., xiv, 1854, p. 172.

*Macroxus similis* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 281.

## HOARY-BELLIED HIMALAYAN SQUIRREL.

1. Adult ♀ P. Cachar, India. E. Gerrard & Sons. E. Inglis.
2. Adult ♂ P. India. E. Gerrard & Sons.

236. *Sciurus tenuis* Horsfield.

*Sciurus tenuis* Horsf., Zoöl. Res. Java, 1824, p.

*Sciurus affinis* Horsf., Zoöl. Res. Java, 1824, p. (nec Raffles.)

*Sciurus modestus* Müll. & Schleg., Verhandl. over de Natuur. Gesch. Nederl., 1849-44, p. 96, pl. xxiv.

## SLENDER SQUIRREL.

1. Adult — P. Penrisen Hills. E. Gerrard & Sons. A. Everett.

Subgenus *G. Guerlinguetus*.*a. Sciurus æstuans hoffmanni* Peters.

*Sciurus æstuans* var. *hoffmanni* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1863, p. 654.

*Sciurus xanthotus* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 429.

*Sciurus griseogena*! Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 430. (Part. Costa Rica specimens.)

*Sciurus rufoniger* Allen, Mon. N. Am. Rod., 1877, p. 757. (Part. Costa Rica specimens.)

*Sciurus griseogenys* Alston, Proc. Zool. Soc., 1878, p. 667. (Part. Costa Rica, & Veragua Panama, specimens.)

*Sciurus æstuans hoffmanni* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 104, fig. 15. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 61. Zool. Ser.

## HOFFMANN'S SQUIRREL.

1. Adult ♂ P. Ypura. E. Gerrard & Sons.
2. Adult ♀ P. Lacagua. E. Gerrard & Sons.
- 3-4. Adult — P. Costa Rica. E. Gerrard & Sons.
5. Adult ♂ P. Costa Rica. C. F. Underwood.
6. Adult ♀ P. Costa Rica. C. F. Underwood.
7. Adult ♂ Exch. Borneo, Costa Rica. Am. Mus. Nat. Hist. N. Y. G. K. Cherrie.
8. Adult ♀ Exch. Borneo, Costa Rica. Am. Mus. Nat. Hist. N. Y. G. K. Cherrie.
- 9-12. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
- 13-16. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
17. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
18. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

**237. *Sciurus chapmani* Allen.**

*Sciurus æstuans hoffmanni* Allen & Chapm., Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 17. (nec Peters.)

*Sciurus chapmani* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 16.

## CHAPMAN'S SQUIRREL.

- 1-2. Adult ♂ Exch. Princetown, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

**238. *Sciurus langsdorffi* Brandt.**

*Sciurus langsdorffi* Brandt, Mém. Acad. St. Pétersb., 1835, p. 428, pl. 11.

## LANGSDORFF'S SQUIRREL.

1. Adult ♂ P. South America. E. Gerrard & Sons.
2. Adult ♀ P. Brazil, S. America. E. Gerrard & Sons.

Subgenus H. *Aræosciurus*.239. *Sciurus oculatus* Peters.

*Sciurus capistratus* Licht., Abhandl. K. Akad. Wiss. Berl., 1830, p. 116. (nec Bosc, 1802.)

*Sciurus carolinensis* Sauss., Rev. Mag. Zool., 2me Sér., XIII, 1861, p. 4. (nec Gmel.)

*Sciurus oculatus* Peters, Monatsb. K. Akad. Wiss. Berl., 1863, p. 653. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 107. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 62. Zoöl. Ser.

*Sciurus hypopyrrhus* Allen, Bull. U. S. Geol. Surv. Terr., IV, 1878, pp. 881-882.

*Sciurus niger melanotus* Thos., Proc. Zoöl. Soc., 1890, p. 73, pl. VI.

## BLACK-BACKED SQUIRREL.

1-5. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

6. Adult ♀ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

240. *Sciurus nayaritensis* Allen.

*Sciurus alstoni* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1889, p. 167. (nec Anderson.)

*Sciurus nayaritensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. VII, footnote, and p. 185. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 108, fig. 16. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 63. Zoöl. Ser.

## NAYARIT SQUIRREL.

1. Adult ♂ Exch. San de Nayarit, State of Jalisco, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

2. Adult ♀ Exch. San de Nayarit, State of Jalisco, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

241. *Sciurus arizonensis* Coues.

*Sciurus arizonensis* Coues, Amer. Nat., 1, 1867, p. 357. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 59, fig. 14. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.



Pub., IV, Pt. 1, 1904, p. 109. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 63. Zoöl. Ser.

*Sciurus colliæi* Allen, Mon. N. Am. Rod., 1877, p. 738. (nec Rich.)

#### ARIZONA GRAY SQUIRREL.

1. Adult ♂ P. Fort Apache, Arizona. W. W. Price.
2. Adult ♂ Exch. Fossil Creek, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
3. Adult ♀ Exch. Fossil Creek, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
4. Adult ♂ Exch. Wehr Creek, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

#### a. *Sciurus arizonensis huachuca* Allen.

*Sciurus arizonensis huachuca* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 349. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 60. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 109. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 64. Zoöl. Ser.

#### HUACHUCA SQUIRREL.

1. Adult ♂ P. Huachuca Mts., Arizona. ———?
2. Adult ♀ P. Huachuca Mts., Arizona. Loye Miller.
3. Adult ♀ Exch. Huachuca Mts., Arizona. Am. Mus. Nat. Hist. N. Y. W. W. Price.

#### 242. *Sciurus apache* Allen.

*Sciurus griseoflavus* Thos., Proc. Zoöl. Soc., 1882, p. 372. (nec Gray, 1867.)

*Sciurus niger ludovicianus* Thos., Proc. Zoöl. Soc., 1890, p. 73 (footnote). (nec Custis.)

*Sciurus apache* Allen, Bull. Am. Mus. Nat. Hist. N. Y., v, 1893, p. 29. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 59. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 110. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 64. Zoöl. Ser.

#### APACHE SQUIRREL.

- 1-2. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
3. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

Subgenus I. *Parasciurus*.243. *Sciurus rufiventer* E. Geoffroy.

*Sciurus rufiventer* E. Geoff., Cat. Mamm. Mus. Hist. Nat. Paris, 1803, p. 176.

*Sciurus ludovicianus* Custis, Bart. Med. & Phys. Jour., II, Pt. II, 1806, p. 47. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 52. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 64. Zool. Ser.

*Sciurus macroura* Say, Long's Exped. Rocky Mts., I, 1823, p. 115.

*Sciurus magnicaudatus* Harl., Faun. Amer., 1825, p. 178.

*Sciurus subauratus* Bachm., Proc. Zool. Soc., 1838, p. 87.

*Sciurus auduboni* Bachm., Proc. Zool. Soc., 1838, p. 97.

*Sciurus occidentalis* Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 317.

*Sciurus sayi* Aud. & Bachm., Quad. N. Amer., II, 1851, p. 274, pl. LXXXIX.

## FOX SQUIRREL.

1. Adult — P. Iowa. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♂ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
3. Adult ♀ Exch. Warsaw, Illinois. Am. Mus. Nat. Hist. N. Y. C. K. Worthern.
- 4-5. Adult ♀ Pres. Hicksville, Ohio. H. Meek.
- 6-8. Adult — Pres. Hicksville, Ohio. H. Meek.
- 9-13. Adult ♂ P. Knoxville, Iowa. G. K. Cherrie.
14. Adult ♀ Coll. Noble, Oklahoma Terr. T. Surber.
- 15-21. Adult ♂ P. Lawrence, Kansas. J. Rowley.
- 22-27. Adult ♀ P. Lawrence, Kansas. J. Rowley.

a. *Sciurus rufiventer texensis* (Bachman).

*Sciurus texianus* ! Bachm., Proc. Zool. Soc., 1838, p. 86.

*Sciurus limitis* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 331.

*Sciurus ludovicianus limitis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 53. Zool. Ser.

*Sciurus rufiventer texensis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 110, fig. 17. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 65. Zool. Ser.

## TEXAS FOX SQUIRREL.

- 1-2. Adult ♂ Exch. Fort Clarke, Texas. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

3. Adult ♂ Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.
- 4-5. Adult — Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.

**b. *Sciurus rufiventer neglectus* (Gray).**

*Sciurus vulpinus* Schreb., Säugth., IV, 1792, p. 772. (nec Gmelin.)

*Sciurus cinereus* Le Conte, App. McMurt. Cuv., Rég. Anim., 1831, p. 433. (nec Linnæus.)

*Macroxus neglectus* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 425.

*Sciurus ludovicianus vicinus* Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 150. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 52. Zoöl. Ser.

*Sciurus rufiventer neglectus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1902, p. 22. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 65. Zoöl. Ser.

**EASTERN FOX SQUIRREL.**

1. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
- 2-4. Adult ♀ P. Lewisburg, West Virginia. T. Surber.
5. Adult ♂ P. Wilson, New York. C. K. Worthen.

**244. *Sciurus durangi* (Thomas).**

*Sciurus aberti* Thos., Proc. Zoöl. Soc., 1882, p. 372. (nec Woodhouse.)

*Sciurus aberti durangi* Thos., Ann. Mag. Nat. Hist., 6th Ser., x1, 1893, p. 28.

*Sciurus durangi* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 112. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 67. Zoöl. Ser.

**DURANGO SQUIRREL.**

- 1-5. Adult ♂ Coll. Coyotes, State of Durango. Heller & Barber.
- 6-9. Adult ♀ Coll. Coyotes, State of Durango. Heller & Barber.

**245. *Sciurus niger* Linnæus.**

*Sciurus niger* Linn., Syst. Nat., I, 1758, p. 64. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 51, fig. 10. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 66. Zoöl. Ser.

*Sciurus cinereus* Linn., Syst. Nat., I, 1758, p. 64. (Part.)

*Sciurus vulpinus* Gmel., Syst. Nat., I, 1788, p. 147

## SOUTHERN FOX SQUIRREL.

1. Adult — P. Florida. Ward's Nat. Scien. Establ., Roches-  
ter, N. Y.
2. Adult ♀ Coll. Riceboro, Georgia. T. Surber.
- 3-4. Adult ♂ Exch. Tarpon Springs, Florida. Am. Mus. Nat.  
Hist. N. Y. W. E. D. Scott.
5. Adult ♂ Exch. Madisonville, Louisiana. Am. Mus. Nat.  
Hist. N. Y. G. Kohn.
6. Adult ♂ Exch. St. Tammany Parish, Louisiana. Am. Mus-  
Nat Hist. N. Y. G. Kohn.
7. Adult — Exch. St. Tammany Parish, Louisiana. Am. Mus.  
Nat. Hist. N. Y. C. S. Galbraith.
8. Adult ♂ Coll. New Berlin, Florida. T. Surber.
9. Adult ♀ Black var. Coll. New Berlin, Florida. T. Surber.
10. Adult ♀ P. Bellair, Florida. C. S. Brimley.

Subgenus J. *Otosciurus*.246. *Sciurus aberti* Woodhouse.

*Sciurus dorsalis* Woodh., Proc. Acad. Nat. Scien. Phil., 1852, p.  
110. (nec Gray.)

*Sciurus aberti* Woodh., Proc. Acad. Nat. Scien. Phil., 1852, p. 220.  
Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 57,  
fig. 13. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &  
W. Indies, F. C. M. Pub., VI, 1905, p. 66. Zoöl. Ser.

## ABERT'S SQUIRREL.

1. Adult ♂ Exch. White Mountains, Arizona. Am. Mus. Nat.  
Hist. N. Y. E. A. Mearns.
2. Adult ♀ Exch. Stoneman's Lake, Arizona. Am. Mus. Nat.  
Hist. N. Y. E. A. Mearns.
3. Adult ♂ Exch. Cañon Creek, Arizona. Am. Mus. Nat.  
Hist. N. Y. E. A. Mearns.
4. Adult ♀ Exch. Cañon Creek, Arizona. Am. Mus. Nat.  
Hist. N. Y. E. A. Mearns.
5. Adult ♀ Exch. Mogollon Mts., Arizona. Am. Mus. Nat.  
Hist. N. Y. E. A. Mearns.
6. Adult ♂ P. San Francisco Mts., Arizona. F. Stephens.
7. Adult ♀ P. Cooley's Ranch, Arizona. J. Diefenbach.
- 8-9. Adult ♀ P. White Mts., Arizona. B. C. Condit.



Subgenus K. *Echinosciurus*.**247. *Sciurus aureigaster* F. Cuvier.***Sciurus niger* Erxl., Syst. Regn. Anim., 1777, p. 417. (nec Linn.)*Sciurus variegatus* Desm., Nouv. Dict. Hist. Nat., x, 1817, p. 103. (nec Erxl., 1777.)*Sciurus aureogaster* F. Cuv., Hist. Nat. Mamm., vi, 1829, pl. text.*Sciurus rufiventer* Licht., Abh. K. Akad. Wiss. Berl., (1827) 1830, p. 116. (nec E. Geoffroy.)*Sciurus leucogaster* F. Cuv., Suppl. Hist. Nat. Buffon, i, 1831, p. 300.*Sciurus mustelinus* Aud. & Bachm., Proc. Acad. Nat. Scien. Phil. 1841, p. 100.*Sciurus aurogaster!* Aud. & Bachm., Quad. N. Amer., iii, 1851, p. 344.*Sciurus hypoxanthus* I. Geoff., Voy. de la Vénus, Zoöl., 1855, p. 158.*Sciurus hypopyrrhus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 222. (nec Wagler.)*Sciurus leucops* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 198.*Sciurus aureigaster* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 115, figs. 19, xxix. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 68. Zoöl. Ser.FIG. XXVI. *SCIURUS AUREIGASTER*. GOLDEN-BELLIED SQUIRREL.

GOLDEN-BELLIED SQUIRREL. *Ardilla* in Mexico.

1. Adult ♀ Exch. Rio Carono, Mexico. Am. Mus. Nat. Hist. N. Y. J. M. Privur.
2. Adult ♀ P. Plan del Rio, State of Vera Cruz, Mexico. E. Gerrard & Sons.

a. *Sciurus aureigaster hypopyrrhus* (Wagler).

*Sciurus hypopyrrhus* Wagl., Isis, 1831, pp. 510-511.

*Macroxus morio* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 424.

*Macroxus maurus* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 425.

*Sciurus variegatus* Sumichr., La Natural., v, 1882, p. 324.

*Sciurus aureogaster* Allen, Bull. Am. Mus. Nat. Hist. N. Y., III, 1890, p. 181.

*Sciurus aureigaster hypopyrrhus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 116. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 68. Zoöl. Ser.

## FIRE-BELLIED SQUIRREL.

- 1-8. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 9-14. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

b. *Sciurus aureigaster frumentor* Nelson.

*Sciurus aureogaster frumentor* Nelson, Proc. Biol. Soc. Wash., XII, 1898, p. 154.

*Sciurus aureigaster frumentor* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 117. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 69. Zoöl. Ser.

## PEROTE SQUIRREL.

1. Adult ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
2. Adult ♀ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.

a. *Sciurus poliopus nemoralis* (Nelson).

*Sciurus albipes nemoralis* Nels., Proc. Biol. Soc. Wash., XII, 1898, p. 151.

*Sciurus wagneri nemoralis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1898, p. 454.

*Sciurus poliopus nemoralis* Nels., Proc. Wash. Acad. Scien., I,

1899, p. 50. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 118. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 70. Zoöl. Ser.

MICHOACAN SQUIRREL.

1. Adult ♂ P. State of Jalisco, Mexico. E. Gerrard & Sons. A. C. Buller.

*b. Sciurus poliopus peregrinator* Nelson.

*Sciurus poliopus peregrinator* Nels., Proc. Biol. Soc. Wash., XVII, 1904, p. 149. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 70. Zoöl. Ser.

PUEBLA SQUIRREL.

1. Adult ♂ Coll. Apiluluca, State of Puebla? Mexico. G. F. Breninger.

*c. Sciurus poliopus cervicalis* (Allen).

*Sciurus leucops* Allen, Mon. N. Am. Rod., 1877, p. 753. (nec Gray.)

*Sciurus variegatus* Alston, Biol. Centr. Amer., Mamm., I, 1880, p. 127. (nec Erxl.)

*Sciurus aureogaster leucops* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1889, p. 166.

*Sciurus cervicalis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 183.

*Sciurus wagneri cervicalis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1898, p. 454.

*Sciurus poliopus cervicalis* Nels., Proc. Wash. Acad. Scien., I, 1899, p. 51. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 119. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 71. Zoöl. Ser.

COLIMA MOUNTAIN SQUIRREL.

1. Adult ♂ Exch. Sierra Nevada de Colima, State of Jalisco, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.
2. Adult ♀ Paratype. Exch. Hacienda San Marcos, State of Tonila, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

248. *Sciurus colliæi* Richardson.

*Sciurus colliæi* Rich., Voy. 'Blossom,' Zoöl., 1839, p. 8. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 121. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 73. Zoöl. Ser.

COLLIE'S SQUIRREL.

1. Adult ♂ P. Valle de Banderas, Mexico. E. Gerrard & Sons.

**249. *Sciurus sinaloensis* Nelson.**

*Sciurus sinaloensis* Nelson, Proc. Wash. Acad. Scien., I, 1899, p. 60. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 122. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 73. Zoöl. Ser.

**SINALOA SQUIRREL.**

1. Adult ♀ P. State of Sinaloa, Mexico. P. O. Simons.
- 2-3. Adult ♂ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
- 4-5. Adult ♀ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.

**250. *Sciurus socialis* Wagner.**

*Sciurus socialis* Wagn., Abh. Math.-Phys. Cl. K. Bayer. Akad. Wiss. München, II, 1837, p. 501, pl. v. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 123. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 73. Zoöl. Ser.

*Sciurus aureigaster* Allen, Mon. N. Am. Rodent., 1877, p. 750. (Part.)

*Sciurus variegatus* Alston, Proc. Zoöl. Soc., 1878, p. 660. (Part.)

**TEHUANTEPEC SQUIRREL.**

1. Adult ♂ Exch. Tehuantepec, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.
2. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
3. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.
- 4-5. Adult ♀ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.

**251. *Sciurus griseiflavus* (Gray).**

*Macroxus griseoflavus* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 427.

*Sciurus ludovicianus* Tomes, Proc. Zoöl. Soc., 1861, p. 281. (nec Custis.)

*Sciurus aureigaster* Allen, Mon. N. Am. Rod., 1877, p. 750. (Part.)

*Sciurus affinis* Alston, Proc. Zoöl. Soc., 1878, p. 660.

*Sciurus griseiflavus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 124. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 74. Zoöl. Ser.

**GUATEMALA SQUIRREL.**

1. Adult — P. Guatemala. E. Gerrard & Sons. C. F. Underwood.



**252. *Sciurus yucatanensis* (Allen).**

*Sciurus carolinensis yucatanensis* Allen, Mon. N. Am. Rod., 1877, p. 705.

*Sciurus carolinensis* Alston, Proc. Zool. Soc., 1878, p. 658.

*Sciurus yucatanensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 5. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 125. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 75. Zool. Ser.

**YUCATAN SQUIRREL.**

1. Adult ♀ Exch. Chichen Itza, Yucatan. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
2. Adult ♀ Pres. San Felipe, Yucatan. H. H. Brown.
3. Adult ♀ Pres. Rio Lagatos, Yucatan. H. H. Brown.

**a. *Sciurus adolphii dorsalis* (Gray).**

*Sciurus dorsalis* Gray, Proc. Zool. Soc., 1848, p. 138.

*Sciurus rigidus* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1863, p. 652.

*Sciurus intermedius* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 421.

*Sciurus nicoyana* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 423.

*Sciurus boothiæ* Allen, Mon. N. Am. Rod., 1877, p. 741. (Part. West Costa Rica specimens.)

*Sciurus hypopyrrhus* Allen, Mon. N. Am. Rod., 1877, p. 746. (Part. West Costa Rica specimens.)

*Sciurus adolphi dorsalis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 127. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 76. Zool. Ser.

**BANDED-BACK SQUIRREL.**

1. Adult ♀ Exch. Alajuela, Costa Rica. Am. Mus. Nat. Hist. N. Y. A. Alfaro.
2. Adult ♀ Exch. La Carpintera, Costa Rica. Am. Mus. Nat. Hist. N. Y. G. K. Cherrie.
- 3-4. Adult ♀ P. ——— ? Costa Rica. E. Gerrard & Sons.
- 5-6. Adult ♂ P. Miravalles, Costa Rica. E. Gerrard & Sons.
7. Adult ♀ P. Miravalles, Costa Rica. E. Gerrard & Sons.

**253. *Sciurus melania* (Gray).**

*Macroxus melania* Gray, Ann. Mag. Nat. Hist., 3rd Ser., xx, 1867, p. 425.

*Sciurus melania* Elliot, Mamm. Middle Amer. & W. Indies, F. C.

M. Pub., IV, Pt. I, 1904, p. 128. Zoöl. Ser. *Id.* Check-L.  
Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905,  
p. 76. Zoöl. Ser.

GRAY'S BLACK SQUIRREL.

- 1-4. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 5-8. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 9. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
- 10. Juv. ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

254. *Sciurus variabilis* Is. Geoffroy.

*Sciurus variabilis* Is. Geoff., Mag. Zool., I, 1832, pl. IV.

*Sciurus gerrardi* Gray, Proc. Zoöl. Soc., 1861, p. 92, pl. XVI.  
(Part.)

VARIABLE SQUIRREL.

- 1. Adult ♂ P. Chauchamago. E. Gerrard & Sons.

a. *Sciurus saltuensis bondæ* Allen.

*Sciurus variabilis* Bangs, Proc. Biol. Soc. Wash., XI, 1898, p. 184.  
(nec I. Geoff.)

*Sciurus saltuensis bondæ* Allen, Bull. Am. Mus. Nat. Hist. N. Y.,  
1899, p. 213.

BONDA SQUIRREL.

- 1-5. Adult ♂ Paratypes. P. Bonda, Colombia, South America.  
H. H. Smith.
- 6-10. Adult ♀ Paratypes. P. Bonda, Colombia, South America  
H. H. Smith.

Subgenus L. *Neosciurus*.

255. *Sciurus carolinensis* Gmelin.

*Sciurus carolinensis* Gmel., Syst. Nat., I, 1788, p. 148. Elliot,  
Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 53, fig. 11.  
Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,  
F. C. M. Pub., VI, 1905, p. 78. Zoöl. Ser.

CAROLINA GRAY SQUIRREL.

- 1-3. Adult — Pres. Hicksville, Ohio. H. Meek.
- 4-12. Adult ♂ P. White Sulphur Springs, W. Virginia. T.  
Surber.
- 13. Adult ♀ P. White Sulphur Springs, W. Virginia. T.  
Surber.
- 14-15. Adult ♀ Coll. Calhoun Falls, South Carolina. T. Surber.
- 16-18. Adult ♂ Coll. St. Marys, Georgia. T. Surber.
- 19. Adult ♀ Coll. St. Marys, Georgia. T. Surber.
- 20. Adult ♂ Coll. Crystal River, Florida. T. Surber.

21. Adult ♂ Coll. Enterprise, Florida. T. Surber.
- 22-23. Adult ♀ Coll. Enterprise, Florida. T. Surber.
- 24-25. Adult ♂ Coll. Tarpon Springs, Florida. T. Surber.
26. Adult ♂ Coll. Micco, Florida. T. Surber.
27. Adult ♀ Coll. E. Penn., opp. Micco, Florida. T. Surber.
28. Adult ♂ Coll. Oak Lodge, Florida. T. Surber.
- \*29. Adult ♀ Coll. St. Charles Creek, Florida. T. Surber.
- 30-34. Adult — Coll. Greenway, Clay County, Arkansas. S. E. Meek.
35. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.
36. Adult ♂ Coll. Apex, North Carolina. T. Surber.
37. Adult—Albino. Pres. ——— ? E. E. Ayer.

*a. Sciurus carolinensis leucotis* (Gapper).

*Sciurus cinereus* Schreb., Säugth., IV, 1792, p. 766, pl. CCXCII.  
(nec Linn.)

? *Sciurus pennsylvanicus* Ord, Guth. Geogr., 2nd Am. ed., II, 1815,  
p. 292.

? *Sciurus hiemalis* Ord, Guth. Geogr., 2nd Am. ed., II, 1815, p. 292.

*Sciurus niger* Godman, Am. Nat. Hist., II, 1826, p. 133. (nec  
Linn.)

*Sciurus leucotis* Gapper, Zool. Journ., v, 1830, p. 206.

*Sciurus vulpinus* DeKay, Nat. Hist. N. Y., I, Zool., 1842, p. 59.  
(nec Gmel.)

*Sciurus migratorius* Aud. & Bachm., Quad. N. Am., I, 1849, p.  
265, pl. xxxv.

*Sciurus carolinensis leucotis* Elliot, Syn. N. Am. Mamm., F. C. M.  
Pub., II, 1901, p. 53. Zool. Ser. *Id.* Check-L. Mamm. N.  
Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 79. Zool.  
Ser.

NORTHERN OR WHITE-EARED GRAY SQUIRREL.

1. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist.  
N. Y. J. Rowley.
2. Adult ♀ Exch. Hastings, New York. Am. Mus. Nat. Hist.  
N. Y. J. Rowley.
3. Adult ♀ Exch. Lawyerville, New York. Am. Mus. Nat.  
Hist. N. Y. J. Rowley.
4. Adult ♂ Black var. Exch. Erie, Pennsylvania. Am. Mus.  
Nat. Hist. N. Y. G. B. Sennett.

\*Among the Florida specimens are some that probably might be considered  
as *S. c. extimus* Bangs. Regarding this, however, see remarks in Pub. Field  
Columb. Mus., III, 1901, p. 35. Zool. Ser.

5. Adult ♀ Black var. Exch. Erie, Pennsylvania. Am. Mus. Nat. Hist. N. Y. G. B. Sennett.
6. Adult ♂ Black var. P. White Sulphur Springs, W. Virginia. T. Surber.
7. Adult ♂ P. White Sulphur Springs, W. Virginia. T. Surber.
- 8-9. Adult ♀ P. White Sulphur Springs, W. Virginia. T. Surber.
10. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.
11. Adult — Black var. P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.
12. Juv. ♀ Exch. Van Cortlandt, New York. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

*b. Sciurus carolinensis hypophæus* Merriam.

- Sciurus carolinensis hypophæus* Merr., Scien., VIII, 1886, p. 351.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 54.  
 Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 79. Zoöl. Ser.

MINNESOTA GRAY SQUIRREL.

- 1-2. Adult ♀ Exch. Houston, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

*c. Sciurus carolinensis fuliginosus* (Bachman).

- Sciurus fuliginosus* Bachm., Proc. Zoöl. Soc., 1838, p. 97.  
*Sciurus carolinensis fuliginosus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 55. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 79. Zoöl. Ser.

DUSKY GRAY SQUIRREL.

- 1-2. Adult ♂ Exch. New Orleans, Louisiana. Am. Mus. Nat. Hist. N. Y. G. Kohn.

Subgenus M. *Hesperosciurus*.

**256. *Sciurus griseus* Ord.**

- Sciurus griseus* Ord, Guth. Geogr., 2nd Am. ed., II, 1815, p. 292.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 55, fig. 12. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 130, fig. 20. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 78. Zoöl. Ser.  
*Sciurus fessor* Peale, U. S. Expl. Exped., Mamm. & Birds, 1848, p. 55.  
*Sciurus heermanni* Le Conte, Proc. Acad. Nat. Scien. Phil., 1852, p. 149.



*Sciurus leporinus* Hensh., Ann. Rep. Engin., 1876, p. 25.

*Sciurus fossor anthonyi* Mearns, Proc. U. S. Nat. Mus., xx, 1898, p. 501.

*Sciurus griseus anthonyi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 57. Zoöl. Ser.

#### CALIFORNIA GRAY SQUIRREL.

1. Adult ♀ P. Swiss River, Calaveras County, California. W. W. Price.
- 2-3. Adult ♂ P. Swiss River, Calaveras County, California. W. W. Price.
- 4-5. Adult ♀ Coll. Petaluma, California. E. Heller.
6. Adult ♂ Coll. Eureka, California. E. Heller.
7. Adult ♂ P. Snow Mountains, California. J. Diefenbach.
- 8-11. Adult ♀ P. Snow Mountains, California. J. Diefenbach.
12. Adult ♂ Exch. Nicasio, California. Am. Mus. Nat. Hist. N. Y.
13. Adult ♂ Coll. Hot Spring, Mt. Whitney, California. E. Heller.
- 14-15. Adult ♂ Exch. Campbell's Ranch, Laguna Mts., California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
16. Adult ♀ Exch. Campbell's Ranch, Laguna Mts., California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
17. Adult ♂ P. Cuyamaca Mts., California. F. Stephens.
- 18-19. Adult ♀ Coll. Agness, Oregon. E. Heller.
- 20-23. Adult ♂ Coll. 30 miles west of Minaca, Mexico. G. F. Breninger.
24. Adult ♀ Coll. 30 miles west of Minaca, Mexico. G. F. Breninger.

#### a. *Sciurus griseus nigripes* (Bryant).

*Sciurus fossor nigripes* Bryant, Proc. Calif. Acad. Scien., 1889, p. 25.

*Sciurus griseus nigripes* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 56. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 78. Zoöl. Ser.

#### BLACK-FOOTED GRAY SQUIRREL.

- 1-2. Adult ♂ P. San Antonio, California. J. Diefenbach.
- 2-5. Adult ♀ P. San Antonio, California. J. Diefenbach.
6. Adult ♀ P. Mt. Hamilton, California. W. W. Price.
7. Adult ♀ P. Carmel River, California. W. Greeley.
- 8-9. Adult ♂ P. Big Basin, headwaters of the Waddell River, California. G. A. Coleman.
10. Adult ♀ P. Big Basin, headwaters of the Waddell River, California. G. A. Coleman.

11. Adult — P. Big Basin, headwaters of the Waddell River, California. G. A. Coleman.

Subgenus N. *Tamiasciurus*.

257. *Sciurus hudsonius* (Erxleben).

*Sciurus vulgaris hudsonicus* Erxl., Syst. Regn. Anim., 1777, p. 416.

*Sciurus hudsonius* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 60, fig. 15. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 80. Zoöl. Ser.

HUDSON BAY CHICKAREE.

- 1-3. Adult ♀ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
4. Adult ♀ Exch. Gulquac Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
5. Adult ♂ Coll. Dalhousie, New Brunswick, Canada. T. Surber.
6. Adult ♂ Exch. Forks of River Tobique, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
7. Adult ♀ Exch. Forks of River Tobique, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
8. Adult ♂ Coll. Murray Bay, Province of Quebec, Canada. T. Surber.
9. Adult ♂ Coll. Lake Edward, Province of Quebec, Canada. T. Surber.
10. Adult ♀ Coll. Lake Edward, Province of Quebec, Canada. T. Surber.
- 11-12. Adult ♂ Coll. Gravenhurst, Province of Ontario, Canada. L. Kenkel.
- 13-21. Adult ♀ Coll. Gravenhurst, Province of Ontario, Canada. L. Kenkel.
22. Adult ♀ Coll. Trout Creek, Province of Ontario, Canada. L. Kenkel.
23. Adult ♀ P. Lone Park, Wyoming. E. Thompson Seton.
24. Adult ♂ Coll. Dowagiac, Michigan. L. Pray.
25. Adult ♀ Coll. Dowagiac, Michigan. L. Pray.

a. *Sciurus hudsonius loquax* Bangs.

*Sciurus hudsonicus loquax* Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 161.

*Sciurus hudsonius loquax* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 62. Zoöl. Ser. *Id.* Check-L. Mamm. N.

Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 80. Zoöl. Ser.

NOISY CHICKAREE.

1. Adult ♂ Exch. Syracuse, N. Y. Am. Mus. Nat. Hist. N. Y. M. M. Green.
2. Adult ♀ Exch. South Nyack, N. Y. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 3-5. Adult ♀ Exch. Cornwall, N. Y. Am. Mus. Nat. Hist. N. Y. C. Allen.
6. Adult ♂ Exch. Alder Creek, N. Y. Am. Mus. Nat. Hist. N. Y. M. M. Green.
7. Adult ♀ Exch. Alder Creek, N. Y. Am. Mus. Nat. Hist. N. Y. M. M. Green.
- 8-11. Adult ♂ Exch. Hastings, N. Y. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 12-14. Adult ♀ Exch. Hastings, N. Y. Am. Mus. Nat. Hist. N. Y. J. Rowley.
15. Adult ♂ Coll. White Sulphur Springs, W. Virginia. T. Surber.
- 16-17. Adult ♀ Coll. White Sulphur Springs, W. Virginia. T. Surber.
- 18-19. Adult ♂ Coll. Black Mountain, W. Virginia. T. Surber.
20. Adult ♀ Coll. Top of Alleghany Mts., W. Virginia. T. Surber.
- 21-22. Adult — Pres. Hicksville, Ohio. H. Meek.
23. Adult ♂ Pres. Laporte, Indiana. C. M. Barber.
24. Adult ♀ Pres. Laporte, Indiana. C. M. Barber.
25. Adult — P. Knoxville, Iowa. G. K. Cherrie.
26. Adult ♂ P. Park Siding, Michigan. C. Brandler.
- 27-31. Adult ♀ P. Park Siding, Michigan. C. Brandler.
- 32-35. Adult ♂ P. Lake Murphy, Michigan. C. Brandler.
36. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.

b. *Sciurus hudsonius gymnicus* Bangs.

*Sciurus hudsonicus gymnicus* Bangs, Proc. N. Engl. Zoöl. Club., 1, 1899, p. 28.

*Sciurus hudsonius gymnicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 61. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 80. Zoöl. Ser.

EASTERN CHICKAREE.

1. Adult ♂ Exch. South Twin Lake, Maine. Am. Mus. Nat. Hist. N. Y. J. Rowley.

2. Adult ♂ P. Georget, Prince Edward Island, Canada. R. T. Young.
3. Adult ♀ P. Georget, Prince Edward Island, Canada. R. T. Young.

*c. Sciurus hudsonius minnesota* Allen.

*Sciurus hudsonicus minnesota* Allen, Amer. Nat., xxxiii, 1899, p. 640.

*Sciurus hudsonius minnesota* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 62. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 81. Zoöl. Ser.

MINNESOTA CHICKAREE.

1. Adult ♂ Exch. Camp Douglas, Minn. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 2-3. Adult ♀ Exch. Camp Douglas, Minn. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 4-5. Adult ♂ Paratypes. Exch. Fort Snelling, Minn. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 6-7. Adult ♀ Paratypes. Exch. Fort Snelling, Minn. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
8. Adult ♂ Pres. Tomahawk Lake, Minn. H. T. Chace.

*d. Sciurus hudsonius dakotensis* Allen.

*Sciurus hudsonicus dakotensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 325.

*Sciurus hudsonius dakotensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 62. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 81. Zoöl. Ser.

SOUTH DAKOTA CHICKAREE.

1. Adult ♀ Exch. Glendale, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
2. Adult ♀ Paratype. Exch. Squaw Creek, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

*e. Sciurus hudsonius baileyi* Allen.

*Sciurus hudsonicus baileyi* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1898, p. 261.

*Sciurus hudsonius baileyi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 63. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 81. Zoöl. Ser.

BAILEY'S CHICKAREE.

- 1-5. Adult ♂ P. Red Deer, Alberta, Canada. G. F. Dippie.



6. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.
- 7-8. Adult ♂ P. Canadian Nat. Park, N. W. Territory. G. F. Dippie.
9. Adult ♀ P. Canadian Nat. Park, N. W. Territory. G. F. Dippie.
10. Adult ♂ P. Beaver Lake, N. W. Territory. G. F. Dippie.
11. Adult ♂ P. Carpenter's Mt., Cariboo, Brit. Columbia, Canada. G. F. Dippie.
12. Adult ♀ P. Carpenter's Mt., Cariboo, Brit. Columbia, Canada. G. F. Dippie.

*f. Sciurus hudsonius richardsoni* (Bachman).

*Sciurus richardsonii* Bachm., Proc. Zool. Soc., 1838, p. 100.

*Sciurus hudsonius richardsoni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 64. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 82. Zool. Ser.

RICHARDSON'S CHICKAREE.

1-4. Adult — Pres. Petit Lake, Idaho. S. E. Meek.

*g. Sciurus hudsonius petulans* Osgood.

*Sciurus hudsonicus petulans* Osgood, N. Am. Faun., No. 19, 1900, p. 27.

*Sciurus hudsonius petulans* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Append., p. 426. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 82. Zool. Ser.

SCOLDING CHICKAREE.

1. Adult ♂ Topotype. Coll. White Pass, Alaska. D. G. Elliot.

*h. Sciurus hudsonius vancouverensis* Allen.

*Sciurus hudsonicus vancouverensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 165.

*Sciurus hudsonius vancouverensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 64. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 82. Zool. Ser.

VANCOUVER ISLAND CHICKAREE.

1. Adult ♂ Exch. Vancouver Island, Brit. Columbia, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Streater.

2. Adult ♀ Pres. Fort Wrangel, Alaska. H. Pidgeon.

3-10. Adult ♂ P. Vancouver Island, Brit. Columbia, Canada. A. Forrer.

11-20. Adult ♀ P. Vancouver Island, Brit. Columbia, Canada. A. Forrer.

- 21-22. Juv. ♂ P. Vancouver Island, Brit. Columbia, Canada.  
A. Forrer.

**258. *Sciurus douglasi* Bachman.**

- Sciurus douglasii* Bachm., Proc. Zool. Soc., 1838, p. 99. Elliot,  
Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 65. Zool. Ser.  
*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.  
Pub., VI, 1905, p. 82. Zool. Ser.

**DOUGLAS'S CHICKAREE.**

- 1-8. Adult ♂ Coll. Johnson's Ranch, Elwah River, Clallam  
County, Washington. D. G. Elliot.  
9. Adult ♀ Coll. Johnson's Ranch, Elwah River, Clallam  
County, Washington. D. G. Elliot.  
10-23. Adult ♂ Coll. Boulder Creek, Elwah River, Clallam  
County, Washington. D. G. Elliot.  
24-37. Adult ♀ Coll. Boulder Creek, Elwah River, Clallam  
County, Washington. D. G. Elliot.  
38-40. Adult ♀ Coll. Boulder Lake, Olympic Mts., Clallam  
County, Washington. D. G. Elliot.  
41-44. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam  
County, Washington. D. G. Elliot.  
45-47. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam  
County, Washington. D. G. Elliot.  
48-49. Adult ♂ Coll. Seattle, Washington. E. C. Starks.  
50-56. Adult ♀ Coll. Gardiner, Oregon. E. Heller.  
57. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.  
58. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.  
59. Adult ♀ Coll. Marshfield, Oregon. E. Heller.  
60-61. Adult ♂ Coll. Beaverton, Oregon. E. Heller.  
62. Adult ♂ Coll. Chetco, Oregon. E. Heller.  
63. Adult ♀ Coll. MacDonald's Ranch, Elwah River, Wash-  
ington. D. G. Elliot.  
*a. Sciurus douglasi mollipilosus* (Audubon & Bachman).  
*Sciurus mollipilosus* Aud. & Bachm., Proc. Acad. Nat. Scien.  
Phil., 1841, p. 42.  
*Sciurus douglasi mollipilosus* Elliot, Syn. N. Am. Mamm., F. C. M.  
Pub., 11, 1901, p. 65. Zool. Ser. *Id.* Check-L. Mamm. N.  
Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 83. Zool.  
Ser.

**SOFT-FURRED CHICKAREE.**

- 1-3. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.  
4-6. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.  
7. Adult ♂ P. Point Reyes, California. C. K. Worthern.

8. Adult ♀ P. Point Reyes, California. C. K. Worthern.  
 9-10. Adult ♂ Coll. Requa, California. E. Heller.  
 11-13. Adult ♂ Coll. Mendocino, California. E. Heller.  
 14-15. Adult ♀ Coll. Mendocino, California. E. Heller.

*b. Sciurus douglasi cascadensis* Allen.

*Sciurus douglasi cascadensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y.,  
 1898, p. 277. Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
 11, 1901, p. 66. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 83. Zool. Ser.

CASCADE MOUNTAINS CHICKAREE.

- 1-2. Adult ♂ P. Logan, Oregon. C. K. Worthern.  
 3-4. Adult ♀ P. Logan, Oregon. C. K. Worthern.

*c. Sciurus douglasi albolimbatus* Allen.

*Sciurus hudsonius californicus* Allen, Bull. Am. Mus. Nat. Hist.  
 N. Y., 1890, p. 165. (nec Lesson.)  
*Sciurus douglasi albolimbatus* Allen, Bull. Am. Mus. Nat. Hist.  
 N. Y., 1898, p. 453. Elliot, Syn. N. Am. Mamm., F. C. M.  
 Pub., 11, 1901, p. 66. Zool. Ser. *Id.* Check-L. Mamm. N.  
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 83. Zool.  
 Ser.

CALIFORNIA CHICKAREE.

1. Adult ♂ P. Red Point, California. W. W. Price.  
 2. Adult ♂ P. Bishop Creek, California. F. Stephens.  
 3. Adult ♂ P. Hermit Valley, California. W. W. Price.  
 4. Adult ♂ P. Pyramid Peak, California. W. W. Price.  
 5-6. Adult ♂ P. Silver Lake, California. W. W. Price.  
 7. Adult ♀ P. Echo Lake, California. W. W. Price.  
 8. Adult ♂ P. Woodford's, California. W. W. Price.  
 9. Adult ♀ P. Blue Cañon, California. C. A. Allen.  
 10. Adult ♀ P. Snow Mountains, California. J. Diefenbach.  
 11. Adult ♂ P. Chaparral, California. C. K. Worthern.  
 12. Adult ♀ P. Modoc County, California. H. Bidwell.  
 13-14. Adult ♂ Coll. Big Cottonwood Meadows, Mount Whitney,  
 California. E. Heller.  
 15-16. Adult ♀ Coll. Big Cottonwood Meadows, Mount Whitney,  
 California. E. Heller.  
 17. Adult ♂ Coll. Whitney Creek, Mount Whitney, California.  
 E. Heller.  
 18. Adult ♂ Coll. Hot Springs, Long Cañon, Mount Whitney,  
 California. E. Heller.  
 19-20. Adult ♂ Coll. Ramshaw Meadows, Mount Whitney, California.  
 E. Heller.

21. Adult ♀ Coll. Ramshaw Meadows, Mount Whitney, California. E. Heller.
22. Adult ♀ Coll. Whitney Meadows, Mount Whitney, California. E. Heller.
23. Adult ♂ Coll. Mount Whitney, California. E. Heller.
24. Adult ♂ P. Chaparral, California. E. Adams.

*d. Sciurus douglasi mearnsi* (Townsend).

*Sciurus hudsonius mearnsi* Towns., Proc. Biol. Soc. Wash., XI, 1897, p. 146.

*Sciurus douglasi mearnsi* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 133, fig. 21. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 83. Zoöl. Ser.

MEARNS'S CHICKAREE.

- 1-2. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 3-4. Adult ♀ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
5. Adult ♂ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
6. Adult ♀ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

**259. *Sciurus fremonti*** Audubon & Bachman.

*Sciurus fremonti* Aud. & Bachm., Quad. N. Am., III, 1853, p. 237. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 66. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 84. Zoöl. Ser.

FREMONT'S CHICKAREE.

- 1-3. Adult ♂ P. Nederland, Colorado. R. T. Young.
- 4-9. Adult ♀ P. Nederland, Colorado. R. T. Young.
- 10-11. Adult ♂ P. Boulder, Colorado. R. T. Young.
12. Adult ♀ P. Boulder, Colorado. R. T. Young.
13. Adult ♂ P. Eagle Creek, Montana. R. T. Young.
14. Adult ♀ P. Eagle Creek, Montana. R. T. Young.

*a. Sciurus fremonti mogollonensis* (Mearns).

*Sciurus hudsonius mogollonensis* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1887-90, p. 277.

*Sciurus fremonti mogollonensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 67. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 84. Zoöl. Ser.



## ARIZONA CHICKAREE.

- 1-4. Adult ♀ P. White Mountains, Arizona. B. C. Condit.
5. Adult ♀ P. Baker's Butte, Arizona. B. C. Condit.
6. Adult ♀ Exch. General Springs, Mogollon Mts., Arizona.  
Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

b. *Sciurus fremonti grahamensis* (Allen).

*Sciurus hudsonicus grahamensis* Allen, Bull. Am. Mus. Nat. Hist.  
N. Y., 1894, p. 350.

*Sciurus fremonti grahamensis* Elliot, Syn. N. Am. Mamm., F. C. M.  
Pub., II, 1901, p. 67. Zoöl. Ser. *Id.* Check-L. Mamm. N.  
Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 85. Zoöl.  
Ser.

## GRAHAM MOUNTAINS CHICKAREE.

1. Adult ♂ Paratype. Exch. Graham Mountains, Arizona.  
Am. Mus. Nat. Hist. N. Y. W. W. Price.

Genus 103. **Tamias. Chipmunks.**

**Tamias** Illig., Prodr. Syst. Mamm. et Av., 1811, p. 83. Type  
*Sciurus striatus* Linnæus.

*Tenotis* Rafin., Am. Month. Mag., I, 1817, p. 362.

*Tamia* Less., Man. Mamm., 1827, p. 230.

*Eutamias* Trouess., Cat. Mamm. Viv. et Foss., Bull. Soc. Études  
Scien. Angers, x, 1880, pp. 86-87.

Subgenus A. **Eutamias.****260. Tamias dorsalis** Baird.

*Tamias dorsalis* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 332.  
Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 68,  
fig. 16. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies,  
F. C. M. Pub., IV, Pt. I, 1904, p. 135. Zoöl. Ser. *Id.* Check-L.  
Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905,  
p. 85. Zoöl. Ser.

*Tamias quadrivittatus pallidus* Coues & Yarr., in Wheeler's Rep.  
Geogr. Expl. & Surv. West of 100th Merid., v, 1876, p. 118.

## GILA CHIPMUNK.

- 1-27. Adult ♂ P. Chiricahua Mts., Arizona. B. C. Condit.
- 28-53. Adult ♀ P. Chiricahua Mts., Arizona. B. C. Condit.
54. Adult ♀ P. Santa Catalina Mts., Arizona. B. C. Condit.
55. Adult ♀ P. Graham Mts., Arizona. L. Miller.

56. Adult ♂ Coll. Minaca, Mexico. G. F. Breninger.  
 57-58. Adult ♀ Coll. Minaca, Mexico. G. F. Breninger.

**261. *Tamias townsendi* Bachman.**

*Tamias townsendii* Bachm., Jour. Acad. Nat. Scien. Phil., 1839,  
 p. 68. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901,  
 p. 69. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &  
 W. Indies, F. C. M. Pub., VI, 1905, p. 86. Zool. Ser.

*Tamias cooperi* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 334.  
 TOWNSEND'S CHIPMUNK.

1. Adult ♂ Exch. Mount Lebanon, British Columbia, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Streater.
2. Adult ♀ Exch. Mount Lebanon, British Columbia, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Streater.
3. Adult ♀ Exch. Pacific County, Washington. Am. Mus. Nat. Hist. N. Y. C. P. Streater.
4. Adult ♀ Exch. Kalama, Washington. Am. Mus. Nat. Hist. N. Y. C. P. Streater.
- 5-20. Adult ♂ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
21. Juv. ♂ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
- 22-39. Adult ♀ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
- 40-41. Juv. ♀ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
- 42-50. Adult ♂ Coll. Boulder Creek, Clallam County, Washington. D. G. Elliot.
- 51-53. Adult ♀ Coll. Boulder Creek, Clallam County, Washington. D. G. Elliot.
- 54-55. Adult ♂ Coll. Boulder Lake, Clallam County, Washington. D. G. Elliot.
56. Adult ♀ Coll. McDonald's Ranch, Clallam County, Washington. D. G. Elliot.
- 57-58. Adult ♂ Coll. Johnson's Ranch, Clallam County, Washington. D. G. Elliot.
59. Adult — P. Marion County, California. Ward's Nat. Scien. Establ., Rochester, N. Y.

*a. Tamias townsendi hindsii* (Gray).

*Tamias hindsii* Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 264.  
*Tamias townsendi hindsii* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 70. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 86. Zool. Ser.

## HINDS'S CHIPMUNK.

- 1-10. Adult ♂ Topotypes. Coll. Nicasio, California. E. Heller.  
 11-26. Adult ♀ Topotypes. Coll. Nicasio, California. E. Heller.  
 27-30. Adult ♂ P. Big Basin, California. C. A. Coleman.  
 31-34. Adult ♀ P. Big Basin, California. C. A. Coleman.  
 35. Adult ♂ P. Snow Mts., California. W. W. Price.  
 36. Adult ♂ Coll. Point Reyes, California. E. Heller.  
 37-38. Adult ♀ Coll. Point Reyes, California. E. Heller.  
 39. Adult — P. Big Trees, Santa Cruz Co., California. A. Forrer.

b. *Tamias townsendi pricei* (Allen).

- Tamias pricei* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 333.  
*Tamias townsendi pricei* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
 II, 1901, p. 70. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 87. Zoöl. Ser.

## PRICE'S CHIPMUNK.

- 1-18. Adult ♂ Paratypes. P. Portola, California. J. Diefenbach.  
 19-31. Adult ♀ Paratypes. P. Portola, California. J. Diefenbach.

c. *Tamias townsendi ochrogenys* (Merriam).

- Eutamias townsendii ochrogenys* Merr., Proc. Biol. Soc. Wash., XI,  
 1897, p. 206.  
*Tamias townsendi ochrogenys* Elliot, Syn. N. Am. Mamm., F. C. M.  
 Pub., II, 1901, p. 71. Zoöl. Ser. *Id.* Check-L. Mamm. N.  
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 87. Zoöl.  
 Ser.

## BUFF-CHEEKED CHIPMUNK.

- 1-5. Adult ♂ Topotypes. Coll. Mendocino, California. E. Heller.  
 6-14. Adult ♀ Topotypes. Coll. Mendocino, California. E. Heller.  
 15-17. Adult ♂ Coll. Eureka, California. E. Heller.  
 18-22. Adult ♀ Coll. Eureka, California. E. Heller.  
 23-31. Adult ♂ Coll. Requa, California. E. Heller.  
 32-34. Adult ♀ Coll. Requa, California. E. Heller.  
 35-40. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.  
 41-43. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.  
 44. Adult ♂ Coll. Agness, Oregon. E. Heller.

*d. Tamias townsendi littoralis* Elliot.

*Tamias townsendi littoralis* Elliot, Pub. Field Columb. Mus., III, 1903, p. 153. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 87. Zoöl. Ser.

COAST CHIPMUNK.

- 1-4. Adult ♂ Paratypes. Coll. Marshfield, Oregon. E. Heller.
- 5-10. Adult ♀ Type & paratypes. Coll. Marshfield, Oregon. E. Heller.
- 11-13. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
- 14-15. Adult ♀ Coll. Gardiner, Oregon. E. Heller.
- 16. Adult ♂ Coll. Florence, Oregon. E. Heller.
- 17-18. Adult ♀ Coll. Florence, Oregon. E. Heller.
- 19. Adult ♀ Coll. Scottsburg, Oregon. E. Heller.

**262. *Tamias merriami* (Allen).**

*Tamias asiaticus merriami* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1889, p. 176.

*Tamias merriami* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 71. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 137. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 88. Zoöl. Ser.

MERRIAM'S CHIPMUNK.

- 1-8. Adult ♂ Coll. Mt. Pinos, Ventura County, California. E. Heller.
- 9-12. Adult ♀ Coll. Mt. Pinos, Ventura County, California. E. Heller.
- 13. Adult ♀ Paratype. Exch. San Bernardino Mts., California. Am. Mus. Nat. Hist. N. Y. F. Stephens.
- 14-15. Adult ♀ Exch. Smiths Mts., California. Am. Mus. Nat. Hist. N. Y. C. K. Worthern.
- 16. Adult ♂ Exch. Campbell's Ranch, San Diego Co., California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
- 17. Adult ♀ Exch. Campbell's Ranch, San Diego Co., California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
- 18. Adult ♀ Coll. Castac Lake, Fort Tejon, California. E. Heller.

**263. *Tamias obscurus* Allen.**

*Tamias obscurus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 70. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 136, figs. 22, xxx. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 88. Zoöl. Ser.





FIG. XXVII. *TAMIAS OBSCURUS*. LOWER CALIFORNIA CHIPMUNK.

#### LOWER CALIFORNIA CHIPMUNK.

1. Adult ♂ Exch. San Pedro Martir Mts., Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. E. C. Thurber.
- 4-5. Adult ♀ Exch. San Pedro Martir Mts., Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. A. W. Anthony.
- 6-8. Adult ♂ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 9-14. Adult ♀ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 15-16. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 17-18. Adult ♀ Coll. Santa Rosa, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
19. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 20-25. Adult ♀ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 26-31. Adult ♂ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 32-39. Adult ♀ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
40. Adult ♂ Coll. Rosarito Divide, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
41. Adult ♀ Coll. Rosarito Divide, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
42. Adult ♀ Coll. Aguaje da las Fresas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

#### 264. *Tamias nexus* Elliot.

*Tamias nexus* Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 233.

## ALLIED CHIPMUNK.

- 1-3. Adult ♂ Paratypes. Coll. Coyotes, State of Durango, Mexico. Heller & Barber.  
 4-5. Adult ♀ Type & paratypes, Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

265. *Tamias quadrimaculatus* Gray.

- Tamias quadrimaculatus* Gray, Ann. Mag. Nat. Hist., 3rd Ser., XX, 1867, p. 435. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 71. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 88. Zoöl. Ser. *Tamias macrorhabdotes* Merr., Proc. Biol. Soc. Wash., III, 1886, p. 25, fig. p. 26.

## FOUR-BANDED CHIPMUNK.

1. Adult ♂ P. Quincy, California. F. Stephens.  
 2. Adult ♀ Exch. Red Point, California. Am. Mus. Nat. Hist. N. Y. W. W. Price.  
 3-6. Adult ♂ Exch. Blue Cañon, Placer County, California. Am. Mus. Nat. Hist. N. Y. C. A. Allen.  
 7. Adult ♀ Exch. Blue Cañon, Placer County, California. Am. Mus. Nat. Hist. N. Y. C. A. Allen.  
 8. Adult ♀ P. Chaparral, Butte County, California. C. K. Worthern.  
 9. Adult ♂ P. Modoc County, California. H. Bidwell.  
 10. Adult ♂ P. Blue Cañon, Placer County, California. C. K. Worthern.  
 11. Adult ♀ P. Blue Cañon, Placer County, California. C. K. Worthern.  
 12-16. Adult ♂ P. Bear Valley, Mariposa County, California. A. Forrer.  
 17-20. Adult ♀ P. Bear Valley, Mariposa County, California. A. Forrer.  
 21-22. Juv. ♂ P. Bear Valley, California. A. Forrer.

266. *Tamias senex* Allen.

- Tamias senex* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 83. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 72. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 89. Zoöl. Ser.

## GRAY CHIPMUNK.

1. Adult ♂ P. Hermit Valley, California. W. W. Price.  
 2-5. Adult ♀ P. Hermit Valley, California. W. W. Price.  
 6. Adult ♂ P. Bloods, Alpine County, California. W. W. Price.

- 7-8. Adult ♀ P. Bloods, Alpine County, California. W. W. Price.
- 9-11. Adult ♂ P. Woodfords, Alpine County, California. W. W. Price.
12. Adult ♀ P. Woodfords, Alpine County, California. W. W. Price.
- 13-14. Adult ♂ P. Pyramid Peak, Eldorado County, California. W. W. Price.
- 15-19. Adult ♀ P. Pyramid Peak, Eldorado County, California. W. W. Price.
- 20-22. Adult ♂ P. Silver Lake, Amador County, California. W. W. Price.
- 23-26. Adult ♀ P. Silver Lake, Amador County, California. W. W. Price.
27. Adult ♀ P. Blue Lake, Humboldt County, California. W. W. Price.
28. Adult ♂ P. Chaparral, Butte County, California. E. Adams.
29. Adult ♀ P. Willow Creek Valley, Lassen County, California. E. Adams.

**267. *Tamias speciosus* Allen.**

*Tamias speciosus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 86. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 72. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 89. Zoöl. Ser.

**SHOWY CHIPMUNK.**

- 1-19. Adult ♂ Coll. Bear Valley, San Bernardino Mts., California. E. Heller.
- 20-30. Adult ♀ Coll. Bear Valley, San Bernardino Mts., California. E. Heller.
31. Adult ♂ P. San Jacinto Mts., California. F. Stephens.
32. Adult ♀ Exch. San Bernardino Mts., California. Am. Mus. Nat. Hist. N. Y. F. Stephens.

**a. *Tamias speciosus inyoensis* (Merriam).**

*Eutamias speciosus inyoensis* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 208.

*Tamias callipeplus inyoensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 73. Zoöl. Ser.

*Tamias speciosus inyoensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 89. Zoöl. Ser.

## INYO MOUNTAINS CHIPMUNK.

1. Adult ♂ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.
2. Adult ♀ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.

268. *Tamias frater* Allen.

*Tamias frater* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 88.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 73.  
 Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,  
 F. C. M. Pub., VI, 1905, p. 90. Zoöl. Ser.

## RELATED CHIPMUNK.

- 1-4. Adult ♂ Coll. Monache Meadows, Mt. Whitney, California. E. Heller.
- 5-6. Adult ♀ Coll. Monache Meadows, Mt. Whitney, California. E. Heller.
- 7-8. Adult ♀ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.
9. Adult ♀ Coll. Hot Springs, Mt. Whitney, California. E. Heller.
- 10-14. Adult ♂ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
- 15-17. Adult ♀ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
- 18-20. Adult ♂ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
- 21-22. Adult ♀ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
23. Adult ♂ P. Echo, Amador County, California. W. W. Price.
- 24-27. Juv. ♂ P. Echo, Amador County, California. W. W. Price.
28. Adult ♀ P. Echo, Amador County, California. W. W. Price.
- 29-33. Adult ♂ P. Hermit Valley, Calaveras County, California. W. W. Price.
- 34-37. Juv. ♂ P. Hermit Valley, Calaveras County, California. W. W. Price.
- 38-41. Adult ♀ P. Hermit Valley, Calaveras County, California. W. W. Price.
- 42-49. Juv. ♀ P. Hermit Valley, Calaveras County, California. W. W. Price.



- 50-65. Adult ♂ P. Silver Lake, Amador County, California.  
W. W. Price.
- 66-88. Adult ♀ P. Silver Lake, Amador County, California.  
W. W. Price.
- 89-91. Juv. ♀ P. Silver Lake, Amador County, California.  
W. W. Price.
- 92-94. Juv. ♂ P. Silver Lake, Amador County, California.  
W. W. Price.
- 95-96. Juv. ♂ P. Edgewood, Douglas County, Nevada.  
W. W. Price.
- 97-100. Juv. ♀ P. Edgewood, Douglas County, Nevada.  
W. W. Price.
- 101-102. Adult ♂ P. Bloods, Calaveras County, California.  
W. W. Price.
- 103-107. Adult ♀ P. Bloods, Calaveras County, California.  
W. W. Price.
108. Juv. ♂ P. Modoc County, California. W. W.  
Price.
- 109-110. Juv. ♀ P. Modoc County, California. W. W. Price.
- 111-113. Juv. ♂ P. Woodfords, Alpine County, California.  
W. W. Price.
- 114-116. Adult ♂ P. Blue Lake, Alpine County, California.  
W. W. Price.
117. Juv. ♂ P. Anderson's Ranch, Douglas County,  
Nevada. W. W. Price.
118. Juv. ♀ P. Anderson's Ranch, Douglas County,  
Nevada. W. W. Price.
119. Juv. ♀ P. Mt. Siegel, Nevada. W. W. Price.
- 120-125. Adult ♂ P. Pyramid Peak, Eldorado County, Cali-  
fornia. W. W. Price.
- 126-130. Juv. ♂ P. Pyramid Peak, Eldorado County, Cali-  
fornia. W. W. Price.
- 131-147. Adult ♀ P. Pyramid Peak, Eldorado County, Cali-  
fornia. W. W. Price.
- 148-149. Juv. ♀ P. Pyramid Peak, Eldorado County, Cali-  
fornia. W. W. Price.

**269. *Tamias panamintinus* Merriam.**

*Tamias panamintinus* Merr., Proc. Biol. Soc. Wash., VIII, 1893,  
p. 134. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,  
p. 74. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.  
Indies, F. C. M. Pub., VI, 1905, p. 90. Zoöl. Ser.

## PANAMINT MOUNTAINS CHIPMUNK.

- 1-8. Adult ♂ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.  
 9-18. Adult ♀ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.  
 19-24. Adult ♂ Coll. Coal Kilns, Panamint Mts., California. E. Heller.  
 25-35. Adult ♀ Coll. Coal Kilns, Panamint Mts., California. E. Heller.  
 36-41. Adult ♂ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.  
 42-47. Adult ♀ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.  
 48-51. Adult ♂ Coll. Beveridge Cañon, Inyo Mountains, California. E. Heller.  
 52-56. Adult ♀ Coll. Beveridge Cañon, Inyo Mountains, California. E. Heller.

270. *Tamias amoenus* Allen.

*Tamias amoenus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 90. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 74. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 90. Zoöl. Ser.

## CHARMING CHIPMUNK.

1. Adult ♂ P. Hermit Valley, Calaveras County, California. W. W. Price.  
 2-4. Adult ♀ P. Hermit Valley, Calaveras County, California. W. W. Price.  
 5-9. Adult ♂ P. Pyramid Peak, Eldorado County, California. W. W. Price.  
 10-24. Adult ♀ P. Pyramid Peak, Eldorado County, California. W. W. Price.  
 25-30. Adult ♂ P. Silver Lake, Amador County, California. W. W. Price.  
 31-32. Adult ♀ P. Silver Lake, Amador County, California. W. W. Price.  
 33. Adult ♂ P. Woodfords, Alpine County, California. W. W. Price.  
 34. Adult ♂ P. Lassen Creek, S. E. of Lancaster, California. W. W. Price.

271. *Tamias caurinus* (Merriam).

*Eutamias caurinus* Merr., Proc. Acad. Nat. Scien. Phil., 1898, p. 352.

*Tamias caurinus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 74. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 90. Zoöl. Ser.

#### NORTHWEST CHIPMUNK.

- 1-19. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 20-24. Juv. ♂ Coll. Happy Lake, Olympic Mts., Clallam Co., Washington. D. G. Elliot.
- 25-35. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam Co., Washington. D. G. Elliot.
- 36-37. Juv. ♀ Coll. Happy Lake, Olympic Mts., Clallam Co., Washington. D. G. Elliot.
- 38-40. Adult ♂ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 41-46. Adult ♀ Coll. Boulder Lake, Olympic Mts., Clallam Co., Washington. D. G. Elliot.

#### 272. *Tamias cinereicollis* Allen.

*Tamias cinereicollis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 94. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 75. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 90. Zoöl. Ser.

#### ASH-COLORED CHIPMUNK.

- 1-15. Adult ♂ P. White Mountains, Arizona. W. W. Price.
- 16-24. Adult ♀ P. White Mountains, Arizona. W. W. Price.
- 25-28. Adult — P. White Mountains, Arizona. W. W. Price.

#### 273. *Tamias quadrivittatus* (Say).

*Sciurus quadrivittatus* Say, Long's Exped. Rocky Mts., 11, 1823, p. 45.

*Tamias quadrivittatus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 75. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 138. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 91. Zoöl. Ser.

#### COLORADO CHIPMUNK.

- 1-6. Adult ♂ Exch. Florida, La Plata County, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 7-10. Adult ♀ Exch. Florida, La Plata County, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 11. Adult ♂ Exch. Colorado Springs, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 12-13. Adult ♂ Exch. Three Forks, N. Western Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

14. Adult ♀ Exch. Three Forks, N. Western Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
15. Adult ♂ Exch. Sherman, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
16. Adult ♀ Exch. Sherman, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 17-18. Adult ♂ Exch. Rockwell, Colorado. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
19. Adult ♀ Exch. Rockwell, Colorado. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 20-24. Adult ♂ P. Boulder, Boulder County, Colorado. R. T. Young.
- 25-30. Adult ♀ P. Boulder, Boulder County, Colorado. R. T. Young.
31. Adult ♀ P. Silver Lake, Boulder County, Colorado. R. T. Young.
32. Adult ♀ P. Nederland, Boulder County, Colorado. R. T. Young.
- 33-34. Adult ♂ P. Cuidad, State of Durango, Mexico. A. Forrer.

*a. Tamias quadrivittatus luteiventris* Allen.

*Tamias quadrivittatus luteiventris* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 101. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 76. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 92. Zoöl. Ser.

BUFF-BELLIED CHIPMUNK.

- 1-3. Adult ♂ P. Eagle Creek, Montana. E. Thompson Seton.
- 4-5. Adult ♀ P. Eagle Creek, Montana. E. Thompson Seton.
6. Adult ♂ P. Yancey, Yellowstone National Park. E. Thompson Seton.

*b. Tamias quadrivittatus felix* Rhoads.

*Tamias quadrivittatus felix* Rhoads, Amer. Nat., XXIX, 1895, p. 941. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 76. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 92. Zoöl. Ser.

HAPPY CHIPMUNK.

1. Adult ♂ P. Mount Baker Range, British Columbia, Canada. C. K. Worthern.
2. Adult ♀ P. Mount Baker Range, British Columbia, Canada. C. K. Worthern.



c. *Tamias quadrivittatus affinis* Allen.

*Tamias quadrivittatus affinis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 103. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 77. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 92. Zoöl. Ser.

ALLIED CHIPMUNK.

1-2. Adult ♂ Paratypes. Exch. Ashcroft, British Columbia, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Streater.

d. *Tamias quadrivittatus borealis* (Allen).

*Tamias asiaticus borealis* Allen, Mon. N. Am. Rod., 1877, p. 793.  
*Tamias quadrivittatus borealis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 77. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 92. Zoöl. Ser.

NORTHERN CHIPMUNK.

- 1-4. Adult ♀ Exch. Glendale, S. Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 5-8. Adult ♂ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.
- 9-11. Adult ♀ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.
- 12. Adult ♂ P. Banff, Alberta, Canada. G. F. Dippie.
- 13. Adult ♂ P. Cariboo, British Columbia, Canada. C. K. Worthen.
- 14. Adult ♀ P. Cariboo, British Columbia, Canada. C. K. Worthen.

e. *Tamias quadrivittatus neglectus* Allen.

*Tamias quadrivittatus neglectus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 106. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 78. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 92. Zoöl. Ser.

NEGLECTED CHIPMUNK.

- 1-6. Adult ♂ P. Park Siding, Michigan. C. Brandler.
- 7-12. Adult ♀ P. Park Siding, Michigan. C. Brandler.
- 13. Adult ♂ P. Seney, Schoolcraft County, Michigan. T. Surber.
- 14. Adult ♂ P. Knoxville, Iowa. G. K. Cherrie.
- 15. Adult ♂ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 16-17. Juv. ♂ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

- 18-19. Adult ♀ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.  
 20-22. Juv. ♀ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

**274. *Tamias hopiensis* (Merriam).**

*Tamias quadrivittatus gracilis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 76. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 91. Zoöl. Ser. (nec Allen.)

*Eutamias hopiensis* Merr., Proc. Biol. Soc. Wash., XVIII, 1905, p. 165.

**HOPI CHIPMUNK.**

1. Adult ♂ Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
2. Adult ♀ Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

**275. *Tamias minimus* Bachman.**

*Tamias minimus* Bachm., Jour. Acad. Nat. Scien. Phil., 1839, p. 71. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 78. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 93. Zoöl. Ser.

**LEAST CHIPMUNK.**

1. Adult ♂ Exch. Pine Ridge Indian Reserv., S. Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
2. Adult ♀ Exch. Pine Ridge Indian Reserv., S. Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

**a. *Tamias minimus consobrinus* Allen.**

*Tamias asiaticus* var. *pallidus* Allen, Mon. N. Am. Rod., 1877, p. 793. (Part.)

*Tamias minimus consobrinus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 112. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 78. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 93. Zoöl. Ser.

**RELATED CHIPMUNK.**

1. Adult ♀ Exch. Aurora, Carbon County, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 2-5. Adult ♀ Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
6. Adult ♂ P. Billings, Montana. E. Thompson Seton.
7. Adult ♀ P. Billings, Montana. E. Thompson Seton.

*b. Tamias minimus pictus* Allen.

*Tamias minimus pictus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 115. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 79. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 94. Zoöl. Ser.

PAINTED CHIPMUNK.

- 1-6. Adult ♂ P. Mount Siegel, Nevada. W. W. Price.
- 7-8. Juv. ♂ P. Mount Siegel, Nevada. W. W. Price.
- 9-12. Adult ♀ P. Mount Siegel, Nevada. W. W. Price.
- 13-14. Adult — Pres. Petit Lake, Idaho. S. E. Meek.
- 15. Adult ♀ P. Bunch Grass Spring, Madeline Plains, Modoc County, California. F. Stephens.

*c. Tamias minimus alpinus* (Merriam).

*Tamias alpinus* Merr., Proc. Biol. Soc. Wash., VIII, 1893, p. 137.  
*Tamias minimus alpinus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 79. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 94. Zoöl. Ser.

ALPINE CHIPMUNK.

- 1-3. Adult ♂ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
- 4-6. Adult ♀ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
- 7-13. Adult ♂ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
- 14-16. Adult ♀ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
- 17-21. Adult ♂ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
- 22-23. Adult ♀ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
- 24-26. Adult ♂ Coll. Old Mount Whitney, California. E. Heller.

Subgenus B. *Tamias*.

**276. *Tamias striatus* (Linnæus).**

*Sciurus striatus* Linn., Syst. Nat., I, 1758, p. 64.

*Sciurus americanus* Gmel., Syst. Nat., I, 1788, p. 150.

*Tamias striatus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 80. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 95. Zoöl. Ser.

## STRIPED CHIPMUNK.

1. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. W. M. Richardson.
2. Adult ♀ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
3. Adult — Exch. Cornwall, New York. Am. Mus. Nat. Hist. N. Y. C. A. Allen.
4. Adult — P. Tamarack Swamp, Pennsylvania. T. Surber.
5. Adult ♀ Exch. Newton, New Jersey. Am. Mus. Nat. Hist. N. Y. G. Lewis.
6. Adult — Exch. Hiskatom, New Jersey. Am. Mus. Nat. Hist. N. Y. L. L. Foster.
- 7-10. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
11. Juv. ♂ P. White Sulphur Springs, West Virginia. T. Surber.
- 12-14. Adult ♀ P. White Sulphur Springs, West Virginia. T. Surber.
15. Juv. ♀ P. Black Mountain Springs, West Virginia. T. Surber.
16. Adult ♂ Pres. Hicksville, Ohio. S. E. Meek.
17. Adult ♂ P. Cedar Rapids, Iowa. G. K. Cherrie.
- 18-19. Adult ♀ Coll. Gravenhurst, Ontario, Canada. L. Kenkel.
- 20-21. Adult ♂ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
- 22-24. Adult ♀ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
25. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Tamias striatus lysteri* (Richardson).

*Sciurus (Tamias) lysteri* Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 181, pl. 15.

*Tamias striatus lysteri* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 80. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 95. Zool. Ser.

## LYSTER'S STRIPED CHIPMUNK.

1. Adult ♂ Exch. Stamford, Connecticut. Am. Mus. Nat. Hist. N. Y. C. A. Smith.
2. Adult ♀ Exch. Stamford, Connecticut. Am. Mus. Nat. Hist. N. Y. W. Dutcher.
- 3-4. Adult ♂ Exch. Rutland, Vermont. Am. Mus. Nat. Hist. N. Y. W. M. Richardson.



5. Adult ♂ Exch. Tobique Point, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
6. Adult ♀ Exch. Tobique Point, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 7-15. Adult ♂ Coll. Murray Bay, Prov. Quebec, Canada. T. Surber.
- 16-20. Adult ♀ Coll. Murray Bay, Prov. Quebec, Canada. T. Surber.
- 21-24. Adult ♂ Coll. Trout Creek, Prov. Ontario, Canada. L. Kenkel.
- 25-26. Adult ♂ P. Branchton, Prov. Ontario, Canada. G. F. Dippie.
27. Adult ♀ P. Branchton, Prov. Ontario, Canada. G. F. Dippie.
- 28-30. Adult ♀ Exch. Linwood, Prov. Ontario, Canada. Am. Mus. Nat. Hist. N. Y. S. E. Atkinson.
31. Juv. ♀ Exch. Linwood, Prov. Ontario, Canada. Am. Mus. Nat. Hist. N. Y. S. E. Atkinson.
- 32-35. Adult ♂ Coll. Gravenhurst, Prov. Ontario, Canada. L. Kenkel.
- 36-39. Adult ♀ Coll. Gravenhurst, Prov. Ontario, Canada. L. Kenkel.
- 40-42. Adult — Coll. Gravenhurst, Prov. Ontario, Canada. S. E. Meek.
43. Adult ♀ Pres. Laporte, Indiana. C. M. Barber.
44. Adult ♀ Exch. South Twin Lake, Maine. Am. Mus. Nat. Hist. N. Y. J. Rowley.
45. Adult ♀ Coll. Fox Lake, Illinois. L. Pray.

*b. Tamias striatus griseus* Mearns.

*Tamias striatus griseus* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 231. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 81. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 96. Zool. Ser.

GRAY STRIPED CHIPMUNK.

- 1-2. Adult ♂ P. Park Siding, Michigan. C. Brandler.
3. Adult ♂ P. Murphy Lake, Michigan. C. Brandler.
- 4-5. Adult ♂ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 6-8. Adult ♂ Pres. Tomahawk Lake, Wisconsin. H. T. Chace.
9. Adult — Pres. Tomahawk Lake, Wisconsin. H. T. Chace.
- 10-11. Adult ♂ Paratypes. Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

- 12-13. Adult ♀ Paratypes. Exch. Fort Snelling, Minnesota.  
Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

Genus 104. **Citellus. Sperophilus.**

**Citellus** Oken, Lehrb. der Naturg., Zool., II, 1816, p. 842. Type  
*Mus citellus* Linnæus.

*Spermophilus* F. Cuv., Dents Mamm., 1825, pp. 160-161, pls.  
LV, 255.

*Spermatophilus* Wagl., Nat. Syst. Amphib., 1830, p. 22.

*Citillus* Lichten., Darst. neuer oder wenig bekannt. Säugeth.,  
Heft. 5, 1827-34, Taf. xxxi, fig. 2.

*Colobotis* Brandt, Bull. Class. Phys.-Math. Acad. Imp. Scien. St.  
Petersb., II, 1844, p. 365.

*Otospermophilus* Brandt, Bull. Class. Phys.-Math. Acad. Imp.  
Scien. St. Petersb., II, 1844, p. 379.

*Otocolobus* Brandt, Bull. Class. Phys.-Math. Acad. Imp. Scien. St.  
Petersb., II, 1844, p. 382.

*Ictidomys* Allen, Mon. N. Am. Rod., 1877, p. 821.

*Spermophilopsis* Blasius, Tag. 57ten Vers. Deut. Nat. Aertz.,  
1884, p. 324.

*Ammospermophilus* Merr., Proc. Biol. Soc. Wash., VII, 1892, p. 27.

*Xerospermophilus* Merr., Proc. Biol. Soc. Wash., VII, 1892, p. 27.

*Callospermophilus* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 189.  
(note.)

Subgenus A. **Ammospermophilus.**

**277. Citellus harrisi** (Audubon & Bachman).

*Spermophilus harrisii* Aud. & Bach., Quad. N. Am., III, 1854,  
p. 267, pl. 144, fig. 1. Elliot, Syn. N. Am. Mamm., F. C. M.  
Pub., II, 1901, p. 85. Zool. Ser.

*Citellus harrisi* Elliot, Mamm. Middle Amer. & W. Indies, F. C.  
M. Pub., IV, Pt. 1, 1904, p. 141. Zool. Ser. *Id.* Check-L.  
Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905,  
p. 96. Zool. Ser.

HARRIS'S SPERMOPHILE.

1-2. Adult ♂ Exch. Fort Verde, Arizona. Am. Mus. Nat. Hist.  
N. Y. E. A. Mearns.

3. Juv. ♀ Exch. Fort Verde, Arizona. Am. Mus. Nat. Hist.  
N. Y. E. A. Mearns.

4. Adult ♂ P. Fort Lowell, Arizona. Price & Condit.

5-6. Adult ♀ P. Fort Lowell, Arizona. Price & Condit.

**278. *Citellus leucurus* (Merriam).**

*Tamias leucurus* Merr., N. Am. Faun., No. 2, 1889, p. 20.

*Spermophilus leucurus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
11, 1901, p. 86, fig. 18. Zoöl. Ser.

*Citellus leucurus* Elliot, Mamm. Middle Amer. & W. Indies, F. C.  
M. Pub., 14, Pt. 1, 1904, p. 142. Zoöl. Ser. *Id.* Check-L.  
Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905,  
p. 97. Zoöl. Ser.

**WHITE-TAILED SPERMOPHILE.**

1-7. Adult ♂ Coll. Palm Springs, California. E. Heller.

8-10. Adult ♀ Coll. Palm Springs, California. E. Heller.

11-15. Adult ♂ Coll. Daggett, California. E. Heller.

16-19. Adult ♂ Coll. Whitewater, California. E. Heller.

20-24. Adult ♀ Coll. Whitewater, California. E. Heller.

25-26. Adult ♂ Coll. Morongo Pass, California. E. Heller.

27. Adult ♀ Coll. Morongo Pass, California. E. Heller.

28-30. Adult ♀ Coll. Lone Willow Springs, California. E. Hel-  
ler.

31. Adult ♂ P. Hesperia, Lancaster Co., California. E. C.  
Thurber.

32. Adult ♀ P. Hesperia, Lancaster Co., California. E. C.,  
Thurber.

33. Adult ♀ P. Borego Springs, California. F. Stephens.

34. Adult ♂ P. Aguanga, Riverside Co., California. F. Ste-  
phens.

35. Adult ♀ P. Walker's Pass, Kern Co., California. F.  
Stephens.

36-37. Juv. ♂ P. Candelaria, Nevada. J. Rowley.

38-40. Juv. ♀ P. Candelaria, Nevada. J. Rowley.

41-43. Adult ♂ Coll. San Matias Spring, San Pedro Martir Mts.,  
Lower California, Mexico. E. Heller.

44. Adult ♀ Coll. San Matias Spring, San Pedro Martir Mts.,  
Lower California, Mexico. E. Heller.

45-46. Adult ♀ Coll. Parral, San Pedro Martir Mts., Lower Cal-  
ifornia, Mexico. E. Heller.

47. Adult ♀ Coll. Trinidad, Lower California, Mexico. E.  
Heller.

48-50. Adult ♂ Coll. San Felipe, Lower California, Mexico. E.  
Heller.

51-53. Adult ♀ Coll. San Felipe, Lower California, Mexico. E.  
Heller.

54. Adult ♀ P. San Felipe Cañon, San Diego Co., California.  
F. Stephens.

55. Juv. ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

a. *Citellus leucurus cinnamomeus* (Merriam).

*Tamias leucurus cinnamomeus* Merr., N. Am. Faun., No. 3, 1890, p. 51.

*Spermophilus leucurus cinnamomeus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 86. Zoöl. Ser.

*Citellus leucurus cinnamomeus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 97. Zoöl. Ser.

CINNAMON-HUED SPERMOPHILE.

1. Adult ♂ Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
2. Adult ♀ Exch. Uncompahgre Indian Reserv., Utah. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
3. Adult ♂ P. Holbrook, Arizona. W. W. Price.

b. *Citellus leucurus peninsulæ* (Allen).

*Tamias leucurus peninsulæ* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 197.

*Citellus leucurus peninsulæ* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 143, fig. 24. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 97. Zoöl. Ser.

LOWER CALIFORNIA SPERMOPHILE.

- 1-6. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 7-10. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.
11. Adult ♂ Coll. El Alamo, Lower California, Mexico. E. Heller.
12. Adult ♂ Coll. Agua Escondido, Lower California, Mexico. E. Heller.
13. Adult ♀ Coll. Agua Escondido, Lower California, Mexico. E. Heller.

279. *Citellus vinnulus* Elliot.

*Citellus vinnulus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 241. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 98. Zoöl. Ser.

CHARMING SPERMOPHILE.

1. Adult ♂ Coll. Wild Rose Springs, Panamint Mts., California. E. Heller.
2. Adult ♀ Coll. Wild Rose Springs Panamint Mts., California. E. Heller.



3. Adult ♂ Coll. Coal Kilns, Panamint Mts, California. E. Heller.
- 4-5. Adult ♀ Coll. Coal Kilns, Panamint Mts., California. E. Heller.
6. Adult ♂ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
- 7-9. Adult ♂ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
10. Adult ♀ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
- 11-12. Adult ♂ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.
13. Adult ♀ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.
14. Adult ♂ Coll. Mines, Old Coso, Coso Mountains, California. E. Heller.
15. Adult ♀ Coll. Mines, Old Coso, Coso Mountains, California. E. Heller.
- 16-18. Adult ♂ Paratypes. Coll. Keeler, Owen's Valley, California. E. Heller.
19. Adult ♀ Type. Coll. Keeler, Owen's Valley, California. E. Heller.

**280. *Citellus nelsoni* (Merriam).**

*Spermophilus nelsoni* Merr., Proc. Biol. Soc. Wash., VIII, 1893, p. 129. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 87. Zoöl. Ser.

*Citellus nelsoni* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 99. Zoöl. Ser.

**NELSON'S SPERMOPHILE.**

- 1-3. Adult ♂ Coll. Rose Station, Fort Tejon, California. E. Heller.
- 4-5. Adult ♀ Coll. Rose Station, Fort Tejon, California. E. Heller.

**Subgenus B. *Xerospermophilus*.**

**a. *Citellus spilosoma macrospilotus* (Merriam).**

*Spermophilus spilosoma macrospilotus* Merr., N. Amer. Faun., No. 4, 1890, p. 38. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 96, fig. 21. Zoöl. Ser.

*Citellus spilosoma macrospilotus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 145, fig. 25. Zoöl.

Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 99. Zoöl. Ser.

SPOTTED SPERMOPHILE.

1. Adult ♂ P. Fairbank, Arizona. B. L. Condit.
2. Adult ♂ P. S-B. Ranch, Arizona. B. L. Condit.
3. Adult — P. Chiricahua Mountains, Arizona. W. W. Price.

**281. *Citellus eremonomus* Elliot.**

*Citellus eremonomus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 243. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 101. Zoöl. Ser.

DEATH VALLEY SPERMOPHILE.

- 1-2. Adult ♂ Paratypes. Coll. Furnace Creek, Death Valley, California. E. Heller.
3. Adult ♀ Type. Coll. Furnace Creek, Death Valley, California. E. Heller.

**282. *Citellus tereticaudus* (Baird).**

*Spermophilus tereticaudus* Baird, N. Am. Mamm., 1857, p. 315. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 98. Zoöl. Ser.

*Citellus tereticaudus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 144. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 102. Zoöl. Ser.

ROUND-TAILED SPERMOPHILE.

- 1-9. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.
- 10-18. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.
19. Adult ♂ P. Fort Lowell, Arizona. L. Miller.
- 20-24. Adult ♀ P. Fort Lowell, Arizona. L. Miller.
25. Adult ♀ Exch. Phoenix, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
26. Adult ♀ P. Salt Creek, Colorado Desert, California. F. Stephens.
27. Adult ♂ P. Near Sutton, Colorado Desert, California. F. Stephens.
28. Adult ♂ P. Borego Springs, California. F. Stephens.
29. Adult ♀ P. Borego Springs, California. F. Stephens.
30. Adult ♂ P. Pelican Lake, Colorado Desert, California. F. Stephens.
31. Adult ♀ P. Fish Spring, Colorado Desert, California. F. Stephens.

*a. Citellus tereticaudus mohavensis* (Merriam).

*Spermophilus mohavensis* Merr., N. Am. Faun., No. 2, 1889, p.

15. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p.

98. Zoöl. Ser.

*Citellus tereticaudus mohavensis* Elliot, Pub. Field Columb. Mus.,

III, 1903, p. 291. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 102. Zoöl. Ser.

MOHAVE DESERT SPERMOPHILE.

1-23. Adult ♂ Coll. Daggett, Mohave Desert, California. E. Heller.

24-34. Adult ♀ Coll. Daggett, Mohave Desert, California. E. Heller.

**283. *Citellus chlorus* Elliot.**

*Citellus chlorus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 242.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,

F. C. M. Pub., VI, 1905, p. 103. Zoöl. Ser.

PALE SPERMOPHILE.

1-6. Adult ♂ Type & paratypes. Coll. Palm Springs, California. E. Heller.

7-9. Adult ♀ Paratypes. Coll. Palm Springs, California. E. Heller.

**284. *Citellus mexicanus* (Erxleben).**

*Sciurus mexicanus* Erxl., Syst. Regn. Anim., I, 1777, p. 428.

*Citellus mexicanus* Licht., Darst. neuer oder wenig bekannt.

Säugeth., 1830, pl. 31, fig. 2. (ex Toluca.) Elliot, Mamm.

Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p.

146. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.

Indies, F. C. M. Pub., VI, 1905, p. 103. Zoöl. Ser.

*Spermophilus mexicanus* Elliot, Syn. N. Am. Mamm., F. C. M.

Pub., II, 1901, p. 98. Zoöl. Ser.

MEXICAN SPERMOPHILE.

1-3. Adult ♂ P. Corpus Christi, Texas. G. K. Cherrie.

4. Adult — P. Brownsville, Texas. Ward's Nat. Scien. Establ., Rochester, N. Y.

5. Juv. ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

*a. Citellus mexicanus parvidens* (Mearns).

*Spermophilus mexicanus parvidens* Mearns, Proc. U. S. Nat. Mus.,

XVIII, 1896, p. 443. Elliot, Syn. N. Am. Mamm., F. C. M.

Pub., II, 1901, p. 99. Zoöl. Ser.

*Citellus mexicanus parvidens* Elliot, Mamm. Middle Amer. & W.

Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 146. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.  
VI, 1905, p. 104. Zoöl. Ser.

**SMALL-TOOTHED SPERMOPHILE.**

1. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y.  
H. P. Attwater.
2. Adult ♀ Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y.  
F. Armstrong.

Subgenus *C. Iotidomys*.

**285. Citellus tredecimlineatus** (Mitchill).

*Sciurus tredecimlineatus* (sic) Mitch., Lond. Med. Repos., N. S.,  
1821, p. 248.

*Arctomys hoodi* Sabine, Trans. Linn. Soc., 1822, p. 590, pl. 29.

*Spermophilus tredecimlineatus*! Elliot, Syn. N. Am. Mamm., F. C.  
M. Pub., 11, 1901, p. 100, fig. 22. Zoöl. Ser.

*Citellus tredecimlineatus* Elliot, Check-L. Mamm. N. Amer. Cont.  
& W. Indies, F. C. M. Pub., VI, 1905, p. 104. Zoöl. Ser.

**13-STRIPED SPERMOPHILE.**

- 1-8. Adult ♀ P. Jackson Park, Chicago, Ill. W. Brandler.
- 9-17. Adult ♂ Coll. Oakwoods Cemetery, Chicago, Ill. L. Kenkel.
- 18-29. Adult ♀ Coll. Oakwoods Cemetery, Chicago, Ill. L. Kenkel.
30. Juv. ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 31-32. Adult ♀ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
33. Adult ♂ Exch. Douglas County, Kansas. Am. Mus. Nat. Hist. N. Y. L. L. Dyche.
- 34-38. Adult ♂ Coll. Oakes, North Dakota. W. E. Snyder.
- 39-42. Adult ♀ Coll. Oakes, North Dakota. W. E. Snyder.
43. Adult ♀ Coll. Jamestown, North Dakota. W. E. Snyder.
- 44-45. Adult ♂ Coll. Minot, North Dakota. W. E. Snyder.
- 46-48. Adult ♀ Coll. Minot, North Dakota. W. E. Snyder.
47. Adult ♀ Coll. Braddock, North Dakota. W. E. Snyder.
48. Adult ♂ Coll. Steele, North Dakota. W. E. Snyder.
- 49-53. Adult ♀ Coll. Steele, North Dakota. W. E. Snyder.
- 54-55. Adult ♂ Coll. Minnewaukon, North Dakota. W. E. Snyder.
56. Adult ♀ Coll. Minnewaukon, North Dakota. W. E. Snyder.
- 57-58. Adult ♂ P. Blindman River, Alberta, Canada. G. F. Dippie.



- 59-61. Adult ♂ P. Edmonton, Alberta, Canada. G. F. Dippie.  
 62. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.  
 63-64. Adult — P. Red Deer, Alberta, Canada. G. F. Dippie.  
 65-66. Adult ♂ Coll. Fox Lake, Illinois. L. Pray.  
 67-68. Adult ♀ Coll. Fox Lake, Illinois. L. Pray.

a. *Citellus tredecimlineatus pallidus* (Allen).

*Spermophilus tridecemlineatus! pallidus* Allen, Mon. N. Am. Rodent., 1877, p. 872. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 100. Zool. Ser.

*Citellus tredecimlineatus pallidus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 104. Zool. Ser.

PALLID SPERMOPHILE.

1. Juv. ♀ Exch. Colorado Springs, Colorado. Am. Mus. Nat. Hist. N. Y. C. A. Smith.

b. *Citellus tredecimlineatus olivaceus* (Allen).

*Spermophilus tridecemlineatus! olivaceus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 337. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 100. Zool. Ser.

*Citellus tredecimlineatus olivaceus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 104. Zool. Ser.

OLIVACEOUS SPERMOPHILE.

1. Adult ♂ Paratype. Exch. Custer, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.  
 2. Adult ♀ Paratype. Exch. Custer, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.  
 3-4. Adult ♂ P. Boulder, Colorado. R. T. Young.  
 5. Adult — Exch. Illinois. Am. Mus. Nat. Hist. N. Y.

c. *Citellus tredecimlineatus parvus* (Allen).

*Spermophilus tridecemlineatus! parvus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 337. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 100. Zool. Ser.

*Citellus tredecimlineatus parvus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 104. Zool. Ser.

LITTLE SPERMOPHILE.

1. Adult ♀ Paratype. Exch. Uncompahgre Indian Res., Utah. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

d. *Citellus tredecimlineatus texensis* (Merriam).

*Spermophilus tridecemlineatus! texensis* Merr., Proc. Biol. Soc. Wash., XII, 1898, p. 71. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 101. Zool. Ser.

*Citellus tredecimlineatus texensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 105. Zoöl. Ser.

TEXAS SPERMOPHILE.

- 1-10. Adult ♂ Coll. Noble, Oklahoma Territory. T. Surber.
- 11-12. Adult ♀ Coll. Noble, Oklahoma Territory. T. Surber.
- 13-14. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.
- 15-20. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.
- 21. Adult ♀ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 22. Adult ♀ Coll. Arnettville, Oklahoma Territory. T. Surber.

286. *Citellus franklini* (Sabine).

*Arctomys franklinii* Sabine, Trans. Linn. Soc., 1822, p. 587, pl. 27.

*Spermophilus franklini* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 101. Zoöl. Ser.

*Citellus franklini* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 105. Zoöl. Ser.

FRANKLIN'S SPERMOPHILE.

- 1-4. Adult ♂ Coll. Oakes, North Dakota. W. E. Snyder.
- 5-6. Adult ♀ Coll. Oakes, North Dakota. W. E. Snyder.
- 7. Adult ♀ P. Warsaw, Illinois. C. K. Worthern.
- 8. Adult ♀ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

Subgenus D. *Callospermophilus*.

287. *Citellus lateralis* (Say).

*Sciurus lateralis* Say, Long's Exped. Rocky Mts., II, 1823, p. 46.

*Spermophilus lateralis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 83, fig. 17. Zoöl. Ser.

*Citellus lateralis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 105. Zoöl. Ser.

STRIPED SPERMOPHILE.

- 1. Juv. ♂ Exch. Florida, La Plata County, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 2-6. Adult ♀ Exch. Florida, La Plata County, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 7. Adult ♀ Exch. Durango, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 8. Juv. — Exch. Mill City, Colorado. Am. Mus. Nat. Hist. N. Y. C. H. Eagle.

9. Adult ♀ Exch. Mill City, Colorado. Am. Mus. Nat. Hist. N. Y. C. H. Eagle.
- 10-11. Adult ♀ P. Boulder County, Colorado. R. T. Young.
12. Adult ♂ Exch. White Mountains, Arizona. Am. Mus. Nat. Hist. N. Y. B. C. Condit.
- 13-15. Adult ♂ P. White Mountains, Arizona. W. W. Price.
- 16-18. Adult ♀ P. White Mountains, Arizona. W. W. Price.
19. Adult ♂ P. Cooley's Ranch, White Mountains, Arizona. J. Diefenbach.
- 20-21. Adult — P. Cooley's Ranch, White Mountains, Arizona. J. Diefenbach.
22. Adult ♂ Exch. Baker's Butte, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
23. Adult ♀ Exch. Baker's Butte, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

**288. *Citellus cinerascens* (Merriam).**

*Tamias cinerascens* Merr., N. Am. Faun., No. 4, 1890, p. 20.

*Spermophilus cinerascens* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 83. Zool. Ser.

*Citellus cinerascens* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 106. Zool. Ser.

**ASHY SPERMOPHILE.**

- 1-6. Adult ♂ P. National Park, Alberta, Canada. G. F. Dippie.
7. Adult ♀ P. National Park, Alberta, Canada. G. F. Dippie.
8. Adult ♂ P. Banff, Alberta, Canada. G. F. Dippie.
- 9-10. Adult ♀ P. Banff, Alberta, Canada. G. F. Dippie.
- 11-13. Adult — Pres. Petit Lake, Idaho. S. E. Meek.

**289. *Citellus chrysodeirus* (Merriam).**

*Tamias chrysodeirus* Merr., N. Am. Faun., No. 4, 1890, p. 19.

*Spermophilus chrysodeirus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 84. Zool. Ser.

*Citellus chrysodeirus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 106. Zool. Ser.

**GOLDEN-NECK SPERMOPHILE.**

- 1-6. Adult ♂ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
- 7-10. Adult ♀ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.
11. Adult ♀ Coll. Ramshaw Meadows, Mt. Whitney, California. E. Heller.
12. Adult ♂ Coll. Little Cottonwood Meadows, Mt. Whitney, California. E. Heller.

- 13-15. Adult ♀ Coll. Little Cottonwood Meadows, Mt. Whitney, California. E. Heller.
16. Adult ♂ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
- 17-19. Adult ♀ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
- 20-21. Adult ♂ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.
- 22-23. Adult ♂ Coll. Monache Meadows, Mt. Whitney, California. E. Heller.
- 24-25. Adult ♀ Coll. Monache Meadows, Mt. Whitney, California. E. Heller.
26. Adult ♀ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.
27. Adult ♂ P. Chaparral, Butte County, California. C. K. Worthern.
28. Adult ♀ P. Chaparral, Butte County, California. C. K. Worthern.
29. Adult ♀ P. Buck's Ranch, California. C. K. Worthern.
30. Adult ♂ P. Hermit Valley, California. W. W. Price.
- 31-34. Adult ♀ P. Hermit Valley, California. W. W. Price.
- 35-38. Adult ♂ P. Woodfords, Alpine County, California. W. W. Price.
- 39-44. Adult ♀ P. Woodfords, Alpine County, California. W. W. Price.
- 45-51. Adult ♂ P. Silver Lake, Amador County, California. W. W. Price.
- 52-58. Adult ♀ P. Silver Lake, Amador County, California. W. W. Price.
- 59-62. Adult ♂ P. Mount Siegel, Nevada. W. W. Price.
- 63-66. Adult ♀ P. Mount Siegel, Nevada. W. W. Price.
- 67-68. Adult ♂ P. Edgewood, Nevada. W. W. Price.
- 69-71. Adult ♀ P. Edgewood, Nevada. W. W. Price.
72. Adult ♀ P. Buck's Ranch, California. F. Stephens.
73. Adult ♀ P. Chaparral, Butte County, California. E. Adams.

a. *Citellus chrysodeirus bernardinus* (Merriam).

- Spermophilus chrysodeirus brevicaudus* Merr., Proc. Biol. Soc. Wash., VIII, 1893, p. 134. (nec Brandt, 1844.)
- Spermophilus bernardinus* Merr., Science, N. S., VIII, 1898, p. 782.
- Spermophilus chrysodeirus bernardinus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 84. Zool. Ser.



*Citellus chrysodeirus bernardinus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 107. Zoöl. Ser.

SAN BERNARDINO SPERMOPHILE.

- 1-3. Adult ♂ P. Bear Valley, San Bernardino Mts., California. E. Heller.
- 4-9. Adult ♀ P. Bear Valley, San Bernardino Mts., California. E. Heller.
- 10. Adult ♂ P. Bluff Lake, San Bernardino Mts., California. E. Heller.
- 11-16. Adult ♀ P. Bluff Lake, San Bernardino Mts., California. E. Heller.

290. *Citellus wortmani* (Allen).

*Tamias wortmani* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 335.

*Spermophilus wortmani* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 84. Zoöl. Ser.

*Citellus wortmani* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 107. Zoöl. Ser.

WORTMAN'S SPERMOPHILE.

- 1-5. Adult ♂ Paratypes. Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 6-13. Adult ♀ Paratypes. Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

Subgenus E. *Oolobotis*.

291. *Citellus parryi* (Richardson).

*Arctomys parryi* Richard., Append. Parry's Second Voy., 1825, p. 316.

*Arctomys parryi* var. *phaognatha* Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 161.

*Arctomys kennicottii* Ross, Canad. Nat. & Geol., 1861, p. 434.

*Spermophilus empetra* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 89. Zoöl. Ser. (nec Pallas.)

*Citellus parryi* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 107. Zoöl. Ser.

PARRY'S SPERMOPHILE.

- 1-8. Adult ♂ P. Point Barrow, Alaska. E. A. McIlhenny.
- 9. Adult ♀ P. Point Barrow, Alaska. E. A. McIlhenny.

a. *Citellus parryi kadiacensis* (Allen).

*Spermophilus parryi* var. *kodiacensis* Allen, Proc. Bost. Soc. Nat. Hist., XVI, 1874, p. 292.

*Spermophilus empetra* var. *kodiacensis* Allen, Mon. N. Am. Rodent., 1877, p. 839.

*Spermophilus empetra kodiacensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 90, fig. 20. Zoöl. Ser.

*Citellus parryi kodiacensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 108. Zoöl. Ser.

#### KADIAK ISLAND SPERMOPHILE.

1-7. Adult ♂ Topotypes. Coll. Kadiak Island, Alaska. D. G. Elliot.

8-9. Adult ♀ Topotypes. Coll. Kadiak Island, Alaska. D. G. Elliot.

#### 292. *Citellus barrowensis* (Merriam).

*Spermophilus barrowensis* Merr., Proc. Wash. Acad. Scien., 11, 1900, p. 19. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 91. Zoöl. Ser.

*Citellus barrowensis* Elliot, Check L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 110. Zoöl. Ser.

#### BARROW'S SPERMOPHILE.

1-5. Adult ♂ Topotypes. P. Point Barrow, Alaska. E. A. McIlhenny.

6-7. Adult ♀ Topotypes. P. Point Barrow, Alaska. E. A. McIlhenny.

#### 293. *Citellus columbianus* (Ord).

*Arctomys columbianus* Ord, Guth. Geogr., 2nd Am. ed., 11, 1815, p. 292.

*Spermophilus columbianus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 91. Zoöl. Ser.

*Citellus columbianus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 111. Zoöl. Ser.

#### COLUMBIAN SPERMOPHILE.

1-4. Adult ♂ P. National Park, Alberta, Canada. G. F. Dippie.

5. Adult ♀ P. National Park, Alberta, Canada. G. F. Dippie.

6. Adult ♂ P. Calgary, Alberta, Canada. G. F. Dippie.

7. Adult ♂ P. Banff, Alberta, Canada. G. F. Dippie.

8. Adult ♀ P. Banff, Alberta, Canada. G. F. Dippie.

9. Adult ♂ P. Head of Shonsoup River, British Columbia, Canada. A. C. Brookes.

10. Adult ♀ P. Seattle, Washington. A. B. Kibbie.

11. Adult ♂ P. Columbia Falls, Montana. C. K. Worthern.
- 12-13. Adult ♂ Pres. Kalispell, Montana. E. Heller.
14. Adult ♀ Exch. Moscow, Idaho. Am. Mus. Nat. Hist. N. Y. C. M. Warren.

**294. *Citellus richardsoni* (Sabine).**

- Arctomys richardsonii* Sabine, Trans. Linn. Soc., 1822, p. 589, pl. 28.
- Arctomys* (*Spermophilus*) *guttatus* Richard., Faun. Bor. Amer., Mamm., I, 1829, p. 162. (nec Temm.)
- Spermophilus richardsoni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 92. Zoöl. Ser.
- Citellus richardsoni* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 111. Zoöl. Ser.

**RICHARDSON'S SPERMOPHILE.**

1. Adult ♂ P. Forks of Blindman and Red Deer Rivers, Alberta, Canada. G. F. Dippie.
2. Adult ♀ P. Forks of Blindman and Red Deer Rivers, Alberta, Canada. G. F. Dippie.
3. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.
4. Adult ♀ P. Red Deer River, Alberta, Canada. G. F. Dippie.

**295. *Citellus townsendi* (Bachman).**

- Spermophilus townsendii* Bachm., Jour. Acad. Nat. Scien. Phil., 1839, p. 61. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 92. Zoöl. Ser.
- Citellus townsendi* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 111. Zoöl. Ser.

**TOWNSEND'S SPERMOPHILE.**

1. Juv. ♀ Exch. Walla Walla, Washington. Washington University. A. B. Kibbie.

**296. *Citellus armatus* (Kennicott).**

- Spermophilus armatus* Kennicott, Proc. Acad. Nat. Scien. Phil., 1863, p. 158. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 93. Zoöl. Ser.
- Citellus armatus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 112. Zoöl. Ser.

**ARMED SPERMOPHILE.**

- 1-2. Adult ♂ P. Yellowstone Nat. Park, Montana. E. Thompson Seton.
3. Adult ♀ P. Yellowstone Nat. Park, Montana. E. Thompson Seton.

**297. *Citellus elegans* (Kennicott).**

*Spermophilus elegans* Kennicott, Proc. Acad. Nat. Scien. Phil., 1863, p. 158. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 94. Zoöl. Ser.

*Spermophilus richardsoni* var. *townsendi* Allen, Mon. N. Am. Rod., 1877, p. 848. (nec Bachm.)

*Citellus elegans* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 113. Zoöl. Ser.

**ELEGANT SPERMOPHILE.**

- 1-4. Adult ♂ Coll. Oakes, North Dakota. W. E. Snyder.
- 5-14. Adult ♀ Coll. Oakes, North Dakota. W. E. Snyder.
- 15-16. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
- 17-19. Adult ♀ Coll. Jamestown, North Dakota. W. E. Snyder.
- 20. Adult ♂ Coll. Braddock, North Dakota. W. E. Snyder.
- 21. Adult ♂ Coll. Bottineau, North Dakota. W. E. Snyder.
- 22-26. Adult ♀ Coll. Bottineau, North Dakota. W. E. Snyder.
- 27-30. Adult ♂ Coll. Minot, North Dakota. W. E. Snyder.
- 31. Adult ♂ Exch. Bitter Creek, Montana. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 32-35. Adult ♀ Exch. Bitter Creek, Montana. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 36-37. Adult ♂ P. Blindman River, Alberta, Canada. G. F. Dippie.
- 38-40. Adult — P. Blindman River, Alberta, Canada. G. F. Dippie.
- 41. Adult — P. Red River, Alberta, Canada. G. F. Dippie.

**298. *Citellus beldingi* (Merriam).**

*Spermophilus beldingi* Merr., Ann. Acad. Nat. Scien. N. Y., IV, 1888, p. 317. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 94. Zoöl. Ser.

*Citellus beldingi* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 113. Zoöl. Ser.

**BELDING'S SPERMOPHILE.**

- 1-3. Adult ♂ P. Pyramid Peak, California. W. W. Price.
- 4-13. Adult ♀ P. Pyramid Peak, California. W. W. Price.
- 14-15. Adult ♂ P. Hermit Valley, California. W. W. Price.
- 16-18. Adult ♀ P. Hermit Valley, California. W. W. Price.
- 19-25. Adult ♂ P. Silver Lake, California. W. W. Price.
- 26. Adult ♀ P. Silver Lake, California. W. W. Price.
- 27-37. Adult ♂ P. Bear Valley, California. A. Forrer.
- 38-41. Adult ♀ P. Bear Valley, California. A. Forrer.



**299. *Citellus oregonus* (Merriam).**

*Spermophilus oregonus* Merr., Proc. Biol. Soc. Wash., XII, 1898, p. 69. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 94. Zoöl. Ser.

*Citellus oregonus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 113. Zoöl. Ser.

**OREGON SPERMOPHILE.**

1-3. Adult ♂ P. Upper Klamath Lake, Oregon. A. Forrer.

4-6. Adult ♀ P. Upper Klamath Lake, Oregon. A. Forrer.

**Subgenus F. *Otospermophilus*.****300. *Citellus variegatus* (Erxleben).**

*Sciurus variegatus* Erxl., Syst. Regn. Anim., I, 1777, p. 421.

*Citellus variegatus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 148, figs. 27, XXXI. Zoöl. Ser.  
*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 113. Zoöl. Ser.

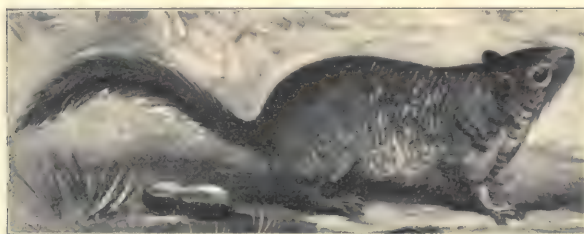


FIG. XXVIII. *CITELLUS (OTOSPERMOPHILUS) VARIEGATUS*.  
 LONG-TAILED SPERMOPHILE.

**LONG-TAILED SPERMOPHILE.**

1-2. Adult ♂ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

3. Juv. ♀ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

4. Adult ♂ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

5. Adult ♂ Exch. Zapotlan, State of Jalisco, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

**a. *Citellus variegatus grammurus* (Say).**

*Sciurus grammurus* Say, Long's Exp. Rocky Mts., II, 1823, p. 72.

*Spermophilus macrourus* Bennett, Proc. Zoöl. Soc., 1833, p. 41.

*Spermophilus couchii* Baird, N. Am. Mamm., 1857, p. 311, pl. 81.

*Spermophilus grammurus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 88, fig. 19. Zoöl. Ser. (Part.)

*Citellus variegatus grammurus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 149. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 113. Zoöl. Ser.

#### BUSHY-TAILED SPERMOPHILE.

- 1-2. Adult ♂ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
- 3-4. Adult ♀ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
5. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
- 6-7. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
- 8-10. Adult ♂ P. Boulder, Colorado. R. T. Young.
- 11-13. Adult ♀ P. Boulder, Colorado. R. T. Young.
14. Adult ♂ P. Fremont County, Colorado. R. T. Young.
15. Adult ♀ P. Florida, Colorado. R. T. Young.
16. Adult ♂ P. Chiricahua Mts., Arizona. W. W. Price.
17. Adult ♀ P. Chiricahua Mts., Arizona. W. W. Price.
18. Adult ♂ P. Huachuca Mts., Arizona. W. W. Price.
19. Adult ♀ P. Huachuca Mts., Arizona. W. W. Price.
20. Adult ♂ P. Copper Cañon, Arizona. W. W. Price.
21. Adult ♂ P. Fort Verde, Arizona. W. W. Price.
- 22-23. Adult ♂ P. Pinal County, Arizona. W. W. Price.

#### b. *Citellus variegatus beecheyi* (Richardson).

*Arctomys beecheyi* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 170.

*Sciurus (Macroxus) californicus* Less., Mamm. & Ois. Nouv., 1847, p. 143.

*Spermophilus grammurus beecheyi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 88. Zoöl. Ser.

*Citellus variegatus beecheyi* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 114. Zoöl. Ser.

#### BEECHY'S SPERMOPHILE.

- 1-3. Adult ♂ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
- 4-6. Adult ♀ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
7. Adult ♂ P. Pyramid Peak, Eldorado County, California. W. W. Price.
8. Adult ♂ P. Dulzura, California. W. W. Price.

9. Adult ♂ P. Cedro Place, San Francisquito Creek, California. G. A. Coleman.
  10. Adult ♂ P. Carmel River, Monterey County, California. W. W. Price.
  - 11-15. Adult ♂ P. Mount Hamilton, Santa Clara County, California. W. W. Price.
  - 16-18. Adult ♀ P. Mount Hamilton, Santa Clara County, California. W. W. Price.
  - 19-20. Juv. ♀ P. Mount Hamilton, Santa Clara County, California. W. W. Price.
  21. Adult — P. California. Ward's Nat. Scien. Establ., Rochester, N. Y.
  22. Adult ♂ P. Greenwood, Eldorado County, California. A. Forrer.
  23. Adult ♀ P. Santa Cruz, California. A. Forrer.
  - 24-28. Imm. — P. Oakland, California. A. Forrer.
  - 29-31. Imm. — P. Big Trees, California. A. Forrer.
- c. *Citellus variegatus fisheri* (Merriam).  
*Spermophilus beecheyi fisheri* Merr., Proc. Biol. Soc. Wash., VIII, 1893, p. 133.  
*Spermophilus grammurus fisheri* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 88. Zoöl. Ser.  
*Citellus variegatus fisheri* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 150. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 114. Zoöl. Ser.
- FISHER'S SPERMOPHILE.
- 1-4. Adult ♂ P. Anderson's Ranch, Douglas County, Nevada. W. W. Price.
  - 5-7. Adult ♀ P. Anderson's Ranch, Douglas County, Nevada. W. W. Price.
  - 8-11. Adult ♂ P. Mount Siegel, Douglas County, Nevada. W. W. Price.
  12. Adult ♂ Coll. Hot Springs, Mount Whitney, California. E. Heller.
  13. Adult ♀ Coll. Hot Springs, Mount Whitney, California. E. Heller.
  14. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.
  - 15-16. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.

- 17-20. Adult ♂ Coll. Fort Tejon, mouth of Canada de las Uvas, California. E. Heller.
- 21-22. Adult ♀ Coll. Fort Tejon, mouth of Canada de las Uvas, California. E. Heller.
23. Adult ♂ Coll. Oro Grande, Mohave Desert, California. E. Heller.
24. Adult ♂ P. Elsinore, Riverside County, California. J. Rowley.
25. Adult ♂ P. Los Angeles, Riverside County, California. J. Rowley.
- 26-32. Adult ♀ P. Los Angeles, Riverside County, California. J. Rowley.
- 33-34. Adult ♂ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 35-38. Adult ♀ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
39. Adult ♂ Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 40-41. Adult ♀ Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 42-45. Adult ♂ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 46-48. Adult ♀ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
49. Adult ♂ Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
50. Adult ♂ Coll. Trinidad, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 51-53. Adult ♂ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
54. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
55. Adult ♂ Coll. El Alamo, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 56-57. Adult ♂ Coll. San Matias Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 58-59. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 60-61. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
62. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.



63. Adult ♂ Coll. Las Eucinas, Lower California, Mexico. E. Heller.

*d. Citellus variegatus douglasi* (Richardson).

*Arctomys (Spermophilus) douglasii* Richard., Faun. Bor. Amer., Mamm., I, 1829, p. 172.

*Spermophilus grammurus douglasi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 89. Zoöl. Ser.

*Citellus variegatus douglasi* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 115. Zoöl. Ser.

DOUGLAS'S SPERMOPHILE.

1. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.

2-4. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.

5-6. Adult ♂ Coll. Eureka, California. E. Heller.

7. Adult ♀ Coll. Eureka, California. E. Heller.

8. Adult ♂ Coll. Petaluma, California. E. Heller.

9. Adult ♀ Coll. Petaluma, California. E. Heller.

*e. Citellus variegatus buckleyi* (Slack).

*Spermophilus buckleyi* Slack, Proc. Acad. Nat. Scien. Phil., 1861, p. 314.

*Spermophilus grammurus buckleyi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 89. Zoöl. Ser.

*Citellus variegatus buckleyi* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 115. Zoöl. Ser.

BUCKLEY'S SPERMOPHILE.

1. Adult — P. Waldo Co., Texas. S. Stert.

**301. *Citellus nesioticus* Elliot.**

*Citellus nesioticus* Elliot, Field Columb. Mus. Pub., III, 1904, p. 263. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 115. Zoöl. Ser.

ISLAND SPERMOPHILE.

1. Adult ♂ Type. P. Santa Catalina Island, California. J. Rowley.

2-3. Adult ♀ Paratypes. P. Santa Catalina Island, California. J. Rowley.

**302. *Citellus annulatus* (Audubon & Bachman).**

*Spermophilus annulatus* Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 319.

*Citellus annulatus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 151. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 116. Zoöl. Ser.

## RING-TAILED SPERMOPHILE.

- I. Adult ♂ Exch. Nogueras, State of Colima, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

Genus 105. **Cynomys. Prairie-dogs.**

**Cynomys** Rafin., Am. Month. Mag., II, 1817, p. 45. Type *Arctomys ludovicianus* Ord.

*Anisonyx* Rafin., Am. Month. Mag., II, 1817, p. 45. (nec Latreille, 1807, Coleopt.)

*Monax* Warden, Statist. Polit. Hist. Acc. U. S., I, 1819, pp. 225-228.

**303. Cynomys ludovicianus (Ord).**

*Arctomys ludovicianus* Ord, Guth. Geogr., 2nd Amer. ed., II, 1815, p. 292.

*Cynomys socialis* Rafin., Am. Month. Mag., II, 1817, p. 45.

*Cynomys grisea* Rafin., Am. Month. Mag., II, 1817, p. 45.

*Arctomys missouriensis* Warden, Desc. États Unis, v, 1820, p. 627.

*Arctomys latrans* Harlan, Faun. Am., 1825, p. 306.

*Cynomys ludovicianus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 102, fig. 23. Zool. Ser. Id. Mamm. Middle Amer.



FIG. XXIX. *CYNOMYS LUDOVICIANUS*. PRAIRIE-DOG.

& W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 155, figs. 28, xxxii. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 117. Zoöl. Ser.

PRAIRIE-DOG. *Perrito, Perrito del Campo* in Mexico.

1. Adult ♂ P. Rockvale, Colorado. C. K. Mason.
- 2-4. Adult ♀ P. Rockvale, Colorado. C. K. Mason.
5. Adult ♂ P. Fremont County, Colorado. C. K. Mason.
6. Adult ♂ Exch. Pine Ridge Ind. Reserv., South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
7. Adult ♂ Exch. Neutral Strip, Indian Territory. Am. Mus. Nat. Hist. N. Y. Richardson.
8. Adult ♂ Exch. Beaver River, Oklahoma Territory. Am. Mus. Nat. Hist. N. Y. Richardson.
- 9-12. Adult — P. Group mounted. Ward's Nat. Scien. Establ., Rochester, N. Y.

### 304. *Cynomys pyrrotrichus* Elliot.

*Cynomys pyrrotrichus* Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 139.

RED PRAIRIE-DOG.

- 1-2. Adult ♂ Paratypes. Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 3-6. Adult ♀ Type & paratypes. Coll. White Horse Spring, Oklahoma Territory. T. Surber.

### 305. *Cynomys arizonensis* Mearns.

*Cynomys arizonensis* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 305. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 104. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 154. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 118. Zoöl. Ser.

ARIZONA PRAIRIE-DOG.

1. Adult ♀ Exch. Northern part of State of Sonora, Mexico. Am. Mus. Nat. Hist. N. Y. E. Robinette.
2. Adult — Exch. San Diego, State of Chihuahua, Mexico. Am. Mus. Nat. Hist. N. Y. E. Robinette.
3. Adult ♂ P. Huachuca Mountains, Arizona. Price & Condit.
4. Adult ♂ P. San Francisco Mountains, Arizona. F. Stephens.

### 306. *Cynomys gunnisoni* (Baird).

*Spermophilus gunnisoni* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 334.

*Cynomys gunnisoni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,

- II, 1901, p. 103. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 156. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 118. Zoöl. Ser.

GUNNISON'S PRAIRIE-DOG.

- 1-3. Adult ♂ P. Fremont County, Colorado. C. K. Mason.
4. Adult ♂ P. Boulder, Colorado. R. T. Young.
5. Adult ♂ Exch. Flagstaff, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

Genus 106. **Marmota. Woodchucks.**

**Marmota** Frisch, Das Nat.-Syst. vierfüss. Thiere, in Tabellen, 9, Tab. Gen., 1775. Type ———?

*Mus* Linn., Syst. Nat., I, 1758, p. 60. (Part.)

*Glis* Erxleb., Syst. Regn. Anim., 1777, p. 358. (Part.)

*Arctomys* Schreb., Säugth., IV, 1782, pp. 721-743, pls. CCVII-CCXI, 1780.

*Lipura* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 95.

**307. Marmota monax** (Linnæus).

*Mus monax* Linn., Syst. Nat., I, 1758, p. 60.

*Arctomys monax* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 105, fig. 24. Zoöl. Ser.

*Marmota monax* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 119. Zoöl. Ser.

WOODCHUCK.

1. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
2. Adult ♀ Exch. Suffolk County, L. Island, New York. Am. Mus. Nat. Hist. N. Y.
3. Adult ♀ P. Marysville, West Virginia. T. Surber.
4. Adult ♀ Pres. Willow Springs, Illinois. W. J. Gerhard.
5. Adult ♂ Pres. Hicksville, Ohio. H. Meek.
- 6-7. Adult ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
8. Juv. ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 9-12. Adult — Group mounted. P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.
13. Adult — P. Saranac Lake, New York. Ward's Nat. Scien. Establ., Rochester, N. Y.



14. Adult — Albino. Pres. ———? E. E. Ayer.

15. Adult ♀ Coll. Fox Lake, Illinois. L. Pray.

*a. Marmota monax canadensis* (Erxleben).

*Glis canadensis* Erxleb., Syst. Regn. Anim., 1777, p. 363.

*Mus empetra* Pallas, Nov. Spec. Quad. Glir. Ord., 1778, p. 75.

*Arctomys melanopus* Kuhl, Beitr. Zool., 1820, p. 64.

*Arctomys monax canadensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 106. Zoöl. Ser.

*Marmota monax canadensis* Elliot, Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 120. Zoöl. Ser.

CANADIAN WOODCHUCK.

1-3. Adult ♂ Coll. Murray Bay, Province of Quebec, Canada.  
T. Surber.

4-7. Adult ♀ Coll. Murray Bay, Province of Quebec, Canada.  
T. Surber.

**308. *Marmota flaviventer*** (Audubon & Bachman).

*Arctomys flaviventer* Aud. & Bachm., Proc. Acad. Nat. Scien.

Phil., 1841, p. 99. Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
11, 1901, p. 106. Zoöl. Ser.

*Marmota flaviventer* Elliot, Check-L. Mamm. N. Amer. Cont. &  
W. Indies, F. C. M. Pub., VI, 1905, p. 120. Zoöl. Ser.

YELLOW-BELLIED WOODCHUCK.

1-2. Juv. ♂ P. Pyramid Peak, Eldorado County, California.  
W. W. Price.

3-4. Juv. ♀ P. Pyramid Peak, Eldorado County, California.  
W. W. Price.

5-6. Adult ♂ Coll. Big Cottonwood Meadows, Mt. Whitney,  
California. E. Heller.

7-8. Adult ♀ Coll. Big Cottonwood Meadows, Mt. Whitney,  
California. E. Heller.

9-13. Adult ♂ Coll. Ramshaw Meadows, Mt. Whitney, California.  
E. Heller.

14-16. Adult ♀ Coll. Ramshaw Meadows, Mt. Whitney, California.  
E. Heller.

17. Adult ♂ P. Echo Lake, Eldorado County, California. W.  
W. Price.

18. Adult ♂ P. Silver Lake, Amador County, California. W.  
W. Price.

19. Adult ♂ P. Boulder, Colorado. R. T. Young.

20. Adult ♀ P. Boulder, Colorado. R. T. Young.

21-22. Adult ♂ P. Midway, Kettle River, British Columbia,  
Canada. G. F. Dippie.

23. Adult ♀ P. Midway, Kettle River, British Columbia, Canada. G. F. Dippie.
24. Adult ♀ P. Mt. Siegel, Douglas County, Nevada. W. W. Price.
25. Juv. ♂ P. Winter's Mine, Douglas County, Nevada. W. W. Price.
26. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.
27. Adult ♂ P. Upper Klamath Lake, Oregon. A. Forrer.
28. Adult ♀ P. Upper Klamath Lake, Oregon. A. Forrer.
- 29-31. Juv. — P. Upper Klamath Lake, Oregon. A. Forrer.

**309. *Marmota olympus* (Merriam).**

*Arctomys olympus* Merr., Proc. Acad. Nat. Scien. Phil., 1898, p. 352. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 107. Zoöl. Ser.

*Marmota olympus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 121. Zoöl. Ser.

**OLYMPIC MOUNTAINS WOODCHUCK.**

- 1-4. Adult ♂ Coll. Happy Lake, Olympic Mountains, Clallam County, Washington. D. G. Elliot.
5. Juv. ♂ Coll. Happy Lake, Olympic Mountains, Clallam County, Washington. D. G. Elliot.
6. Adult ♀ Coll. Happy Lake, Olympic Mountains, Clallam County, Washington. D. G. Elliot.
7. Adult ♀ Coll. Boulder Lake, Olympic Mountains, Clallam County, Washington. D. G. Elliot.

**Subfamily III. *Pteromyinæ*.**

**Genus 107. *Sciuropterus*. Flying Squirrels.**

***Sciuropterus*** F. Cuv., Dents Mammifères, 1825, pp. 161-162, 225, pl. 56. Type *Sciurus volans* Linnæus.

**310. *Sciuropterus alpinus* (Richardson).**

*Pteromys alpinus* Rich., Zoöl. Jour., III, 1828, p. 519.

*Pteromys sabrinus* var. *β alpinus* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 195, pl. 16.

*Sciuropterus volans alpinus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 109. Zoöl. Ser.

*Sciuropterus alpinus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 121. Zoöl. Ser.

## RICHARDSON'S FLYING SQUIRREL.

1. Adult ♂ P. Alberta, Canada. G. F. Dippie.

a. *Sciuropterus alpinus oregonensis* (Bachman).

*Pteromys oregonensis* Bachm., Jour. Acad. Nat. Scien. Phil., 1839, p. 101.

*Sciuropterus volans oregonensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 110. Zoöl. Ser.

*Sciuropterus alpinus oregonensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 122. Zoöl. Ser.

## OREGON FLYING SQUIRREL.

1. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.

b. *Sciuropterus alpinus olympicus* Elliot.

*Sciuropterus alpinus olympicus* Elliot, Pub. Field Columb. Mus., 1, 1899, p. 225. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 123. Zoöl. Ser.

*Sciuropterus volans olympicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 110. Zoöl. Ser.

## OLYMPIC MOUNTAINS FLYING SQUIRREL.

- 1-2. Adult ♂ Type. Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.

3. Adult ♀ Paratype. Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.

4. Adult ♂ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.

c. *Sciuropterus alpinus klamathensis* Merriam.

*Sciuropterus alpinus klamathensis* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 225. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 123. Zoöl. Ser.

*Sciuropterus volans klamathensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 111. Zoöl. Ser.

## KLAMATH FLYING SQUIRREL.

1. Adult ♀ P. Upper Klamath Lake, Oregon. A. Forrer.

d. *Sciuropterus alpinus fuliginosus* Rhoads.

*Sciuropterus alpinus fuliginosus* Rhoads, Proc. Acad. Nat. Scien. Phil., 1897, p. 321. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 123. Zoöl. Ser.

*Sciuropterus volans fuliginosus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 111. Zoöl. Ser.

## DUSKY FLYING SQUIRREL.

1. Adult ♂ Exch. Seattle, Washington. University of Washington. E. C. Starks.

2. Adult ♀ P. Cariboo, British Columbia, Canada. C. K. Worthern.

**311. *Sciuropterus sabrinus* (Shaw).**

*Sciurus hudsonius* Gmel., Syst. Nat., I, 1788, p. 153. (nec Pallas.)

*Sciurus sabrinus* Shaw, Gen. Zool., I, 1801, p. 157.

*Sciurus acrobates* Wagn., Schreb. Säugth., Suppl., IV, 1843, p. 231, pl. CCXXII B.

*Sciuropterus sabrinus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 107. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 124. Zool. Ser.

**BOREAL FLYING SQUIRREL.**

1. Adult ♀ Coll. Lake Edward, Province of Quebec, Canada. L. Kenkel.
2. Adult ♂ Coll. Trout Creek, Province of Ontario, Canada. L. Kenkel.
3. Adult ♀ Coll. Trout Creek, Province of Ontario, Canada. L. Kenkel.
- 4-5. Adult ♂ P. Gooderham, Province of Ontario, Canada. G. F. Dippie.
- 6-8. Adult ♀ P. Gooderham, Province of Ontario, Canada. G. F. Dippie.
9. Adult ♂ P. Portage la Prairie, Manitoba. G. F. Dippie.
- 10-11. Adult ♀ P. Portage la Prairie, Manitoba. G. F. Dippie.
12. Adult ♂ Pres. Canada! C. E. Akeley.

**312. *Sciuropterus nigripes* Thomas.**

*Sciuropterus nigripes* Thos., Ann. Mag. Nat. Hist., 6th Ser., XII, 1893, p. 30.

**BLACK-FOOTED FLYING SQUIRREL.**

1. Adult ♀ P. Palawan, Philippine Islands. E. Gerrard & Sons. A. Everett.

**313. *Sciuropterus volans* (Linnæus).**

*Mus volans* Linn., Syst. Nat., I, 1758, p. 63. (*Mus* nec *Sciurus*, p. 88.)

*Sciurus volucella* Pallas, Nov. Spec. Quad. Glir. Ord., 1778, p. 351.

*Sciuropterus volans* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 109, fig. 25. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 158, figs. 29, XXXIII. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 125. Zool. Ser.





FIG. XXX. SCIUROPTERUS VOLANS. COMMON FLYING SQUIRREL.

#### COMMON FLYING SQUIRREL.

1. Adult ♂ Exch. Millerplace, Long Island, New York. Am. Mus. Nat. Hist. N. Y. A. Helme.
2. Adult ♂ Exch. Ardsley, New York. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
3. Adult ♂ Exch. Highland Falls, New York. Am. Mus. Nat. Hist. N. Y. C. P. Streater.
4. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
5. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.
6. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. C. S. Brimley.
7. Adult ♀ Coll. Apex, North Carolina. T. Surber.
- 8-10. Adult ♂ Coll. Calhoun Falls, South Carolina. T. Surber.
- 11-13. Adult ♀ Coll. Calhoun Falls, South Carolina. T. Surber.
14. Adult ♀ Coll. St. Marys, Georgia. T. Surber.
15. Adult ♀ Pres. Willow Springs, Illinois. W. J. Gerhard.
16. Adult ♂ Pres. Laporte, Indiana. C. M. Barber.
17. Adult — Pres. Kankakee Marshes, Indiana. W. J. Wisdom.
18. Adult ♀ Exch. Ravenna, Ohio. Am. Mus. Nat. Hist. N. Y. C. P. Streater.
19. Adult ♀ P. Knoxville, Iowa. G. K. Cherrie.
20. Adult — Exch. New York. Am. Mus. Nat. Hist. N. Y.

21-22. Adult — Group mounted. P. Ward's Nat. Scien. Establ., Rochester, N. Y.

23-26. Juv. — Group mounted. P. Ward's Nat. Scien. Establ., Rochester, N. Y.

*a. Sciuropterus volans querceti* Bangs.

*Sciuropterus volans querceti* Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 166. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 109. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 126. Zoöl. Ser.

FLORIDA FLYING SQUIRREL.

1. Adult ♂ Coll. Enterprise, Florida. T. Surber.

2. Adult ♀ Coll. Enterprise, Florida. T. Surber.

3. Adult — Exch. Tarpon Springs, Florida. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.

Family III. **Haplodontidæ. Sewellels.**

Genus 108. **Haplodontia.**

**Aplodontia** (sic) Richard., Zoöl. Jour., IV, 1829, p. 334. Type *Aplodontia! leporina* Richardson = *Anisonyx rufa* Rafinesque. *Anisonyx* Rafin., Am. Month. Mag., II, 1817, p. 45. (Part.)

**314. Haplodontia rufa** (Rafinesque).

*Anisonyx rufa* Rafin., Am. Month. Mag., II, 1817, p. 45.

*Aplodontia! leporina* Rich., Zoöl. Jour., IV, 1829, p. 335. *Id.* Faun. Bor. Amer., Mamm., I, 1829, p. 211, pl. 18c.

*Haplodontia rufa* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 112. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 126. Zoöl. Ser.

RUFous SEWELLEL.

1-3. Adult ♂ Exch. Ravenna, Washington. Univ. of Washington. E. C. Starks.

4. Adult ♀ Exch. Ravenna, Washington. Univ. of Washington. E. C. Starks.

5. Adult — P. Tacoma, Washington. Ward's Nat. Scien. Establ., Rochester, N. Y.

**315. Haplodontia pacifica** (Merriam).

*Aplodontia! pacifica* Merr., Proc. Biol. Soc. Wash., XIII, 1899, p. 19.

*Haplodontia pacifica* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
 II, 1901, p. 114. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 127. Zoöl.  
 Ser.

## PACIFIC SEWELLEL.

- 1-2. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
- 3-6. Adult ♀ Coll. Gardiner, Oregon. E. Heller.
- 7-12. Adult ♂ Coll. Florence, Oregon. E. Heller.
- 13-22. Adult ♀ Coll. Florence, Oregon. E. Heller.
- 23. Adult ♂ Coll. Agness, Oregon. E. Heller.
- 24. Adult — P. — ? Oregon. Ward's Nat. Scien. Es-  
 tabl., Rochester, N. Y.

316. *Haplodontia phæa* (Merriam).

*Aploadontia! phæa* Merr., Proc. Biol. Soc. Wash., XIII, 1899, p. 20.  
*Haplodontia phæa* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,  
 1901, p. 114. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont.  
 & W. Indies, F. C. M. Pub., VI, 1905, p. 127. Zoöl. Ser.

## DARK SEWELLEL.

- 1-5. Adult ♂ Coll. Eureka, California. E. Heller.
- 6. Adult ♀ Coll. Eureka, California. E. Heller.
- 7-8. Adult ♂ Topotypes. Coll. Point Reyes, California. E.  
 Heller.
- 9-10. Adult ♀ Topotypes. Coll. Point Reyes, California. E.  
 Heller.
- 11. Adult ♀ Coll. Requa, California. E. Heller.
- 12-18. Adult ♀ Coll. Nicasio, California. E. Heller.
- 19. Adult ♂ Topotype. Exch. Point Reyes, California. Am.  
 Mus. Nat. Hist. N. Y. C. A. Allen.

317. *Haplodontia olympica* (Merriam).

*Aploadontia! olympica* Merr., Proc. Biol. Soc. Wash., XIII, 1899,  
 p. 20.  
*Haplodontia olympica* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
 II, 1901, p. 114. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 127. Zoöl. Ser.

## OLYMPIC MOUNTAINS SEWELLEL.

- 1-4. Adult ♂ Coll. Happy Lake, Olympic Mountains, Clallam  
 County, Washington. D. G. Elliot.
- 5. Juv. ♂ Coll. Happy Lake, Olympic Mountains, Clallam  
 County, Washington. D. G. Elliot.
- 6-8. Adult ♀ Coll. Happy Lake, Olympic Mountains, Clallam  
 County, Washington. D. G. Elliot.

9. Adult ♀ Coll. Boulder Lake, Olympic Mountains, Clallam County, Washington. D. G. Elliot.
10. Adult ♂ Coll. Johnson's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.

#### Family IV. **Castoridae. Beavers.**

##### Genus 109. **Castor.**

**Castor** Linn., Syst. Nat., 1, 1758, p. 58. Type *Castor fiber* Linnæus.

#### 318. **Castor canadensis** Kuhl.

*Castor canadensis* Kuhl, Beitr. Zool., 1820, p. 64. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 116, fig. 27. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 128. Zoöl. Ser.

##### CANADA BEAVER.

1. Adult — P. Canada. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♂ Coll. Iron County, Michigan. C. E. Akeley.
3. Adult ♀ Coll. Iron County, Michigan. C. E. Akeley.
- 4-6. Juv. — Coll. Iron County, Michigan. C. E. Akeley.

#### a. *Castor canadensis frondator* Mearns.

*Castor canadensis frondator* Mearns, Proc. U. S. Nat. Mus., 1897, p. 502. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 116. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 159, figs. 30, xxxiv. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 128. Zoöl. Ser.

##### SONORAN BEAVER.

- 1-4. Adult — Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.
5. Juv. — Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.

#### b. *Castor canadensis pacificus* Rhoads.

*Castor canadensis pacificus* Rhoads, Trans. Am. Philos. Soc., 1898, p. 422. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 117. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 129. Zoöl. Ser.

##### PACIFIC COAST BEAVER.

1. Adult — P. Kenai Peninsula, Alaska. C. F. Periolat.





FIG. XXXI. CASTOR C. FRONDATOR. SONORAN BEAVER.

**319. *Castor fiber* Linnæus.**

*Castor fiber* Linn., Syst. Nat., I, 1758, p. 58.

**BEAVER.**

1. Adult — P. Germany. Ward's Nat. Scien. Establ., Rochester, N. Y.

**Family V. Muscardinidæ. Dormice.**

**Subfamily I. Muscardininæ.**

**Genus 110. Glis.**

**Glis** Briss., Reg. Anim., 2nd ed., 1762, pp. 13, 113, 118. Type *Glis glis* Brisson = *Sciurus glis* Linnæus.

*Myoxus* Zimm., Geog. Gesch. Mensch. vierfuss. Thiere, II, 1780, p. 35<sup>1</sup>.

*Myorus* Reichenb., Bilderg. Thierw., Heft xvii, 1835, Taf. 65, fig. 8.

**320. Glis glis** (Linnæus).

*Sciurus glis* Linn., Syst. Nat., I, 1766, p. 87.

LINNÆUS'S DORMOUSE.

I. Adult — P. Belgium. J. A. Loring.

**321. Glis nitidula** (Pallas).

*Mus nitedula!* Pall., Nov. Spec. Quad. Glir. Ord., 1778, p. 88.

*Id.* Zoogr. Rosso-Asiat., I, 1778, p. 179.

*Myoxus dryas* Schreb., Säugth., IV, 1787, p. 831, pl. 225B.

*Myoxus nitela* var. F. Cuv., Dict. Scien. Nat., 1823, p. 125.

OAK DORMOUSE.

I. Adult — P. Europe! Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus III. **Graphiurus.**

**Graphiurus** Smuts, Enum. Mamm. Cap., 1832, p. 32. F. Cuv., Hist.

Nat. Mamm., VII, Tab. Gen. et Method., 1842, No. 254, p. 4.

Type *Graphiurus capensis* Smuts = *Sciurus ocellatus* A. Smith.

*Graphyurus* Blyth, in Cuv. Anim. Kingd., 1849, p. 111.

*Graphidurus* Wallace, Geog. Distr. Anim., II, 1876, p. 232.

**322. Graphiurus hueti** (Rochebrune).

*Eliomys hueti* Rochbr., Act. Soc. Linn. Bord., VII, 1883, p. 110,  
pl. 6, fig. 1.

*Graphiurus natglasii* Jentink, Notes Leyd. Mus., x, 1888, pp. 38,  
39.

HUET'S DORMOUSE.

I. Adult — P. Gold Coast, West Africa. Ward's Nat. Scien.  
Establ., Rochester, N. Y.

Family VI. **Muridæ. Rats, Mice, Voles.**Subfamily I. **Hydromyinae.**Genus II2. **Hydromys.**

**Hydromys** E. Geoff., Ann. Mus. Hist. Nat. Paris, VI, 1805, pp. 81-90,  
pls. 35-36. Type ———?

**323. Hydromys chrysogaster** E. Geoffroy.

*Hydromys chrysogaster* E. Geoff., Ann. Mus. Hist. Nat. Paris,  
VI, 1805, p. 88, pl. 36, fig. A.

## GOLDEN-BELLIED WATER RAT.

1. Adult — P. Victoria, New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Hydromys chrysogaster leucogaster* (E. Geoffroy).

*Hydromys leucogaster* E. Geoff., Ann. Mus. Hist. Nat. Paris, VI, 1805, p. 89, pl. 36, figs. B, C, D.

## WHITE-BELLIED WATER RAT.

1. Adult — P. Victoria, New South Wales. Ward's Nat. Scien. Establ., Rochester, N. Y.

## Subfamily II. Gerbillinæ.

## Genus 113. Meriones.

**Meriones** Illig., Prodr. Syst. Mamm. et Av., 1811, p. 82. Type

*Dipus meridianus* Gmelin. (By elimination.)

*Rhombomys* Wagn., Geleh. Anz. K. Bayer. Akad. Wiss., Münch., XII, 1841, No. 52, p. 421.

324. **Meriones shawi** (Rozet).

*Gerbillus shawi* Rozet, Voy. Rég. Alger, I, 1833, p. 248.

## SHAW'S MOUSE.

1. Adult — P. ——— ? E. Gerrard & Sons.

## Genus 114. Psammomys.

**Psammomys** Cretzschmar, in Rüppel's Atl. zur Reise nördl. Afrika, 1ste Abth., Zool., Heft XI, 1828, pp. 56-59, Tab. 22-23. Type

*Psammomys obesus* Cretzschmar.

325. **Psammomys obesus** Cretzschmar.

*Psammomys obesus* Cretzs., Rüpp. Atl., 1828, p. 58, pl. 22. Lataste, Act. Soc. Linn. Bord., 1885, p. 269. *Id.* Expl. Tunis, 1887, p. 28.

## FAT SAND RAT.

1. Adult — P. Damietta, Egypt. Ward's Nat. Scien. Establ., Rochester, N. Y.

## Subfamily III. Murinæ.

## Genus 115. Mus.

**Mus** Linn., Syst. Nat., I, 1758, p. 59. Type *Mus rattus* Linnæus.

**326. *Mus rattus* Linnæus.**

*Mus rattus* Linn., Syst. Nat., I, 1758, p. 61. Elliot, Syn. N. Amer. Mamm., F. C. M. Pub., II, 1901, p. 117, fig. 28. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 163, figs. 31, xxxv. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 129. Zoöl. Ser.

**BLACK RAT.**

- 1-2. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
- 3-4. Adult ♀ P. White Sulphur Springs, West Virginia. T. Surber.
5. Adult ♀ Coll. Ship Island, Mississippi. F. E. Lutz.
6. Adult ♀ Exch. Princetown, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
7. Adult ♂ P. Yucatan. G. F. Gaumer.
- 8-11. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 12-18. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 19-21. Juv. ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
22. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

**327. *Mus norvegicus* Erxleben.**

*Mus norvegicus* Erxl., Syst. Reg. Anim., 1777, p. 381. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Append., p. 428. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 164. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 129. Zoöl. Ser.

*Mus decumanus* Pall., Nov. Spec. Quad. Glir. Ord., 1778, p. 91. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 117. Zoöl. Ser.

**NORWAY RAT.**

1. Adult — Exch. New York City. Am. Mus. Nat. Hist. N. Y. G. Burns.
2. Adult ♂ Exch. Central Park, New York City. Am. Mus. Nat. Hist. N. Y.
3. Adult ♀ Exch. Millerplace, Long Island, N. Y. Am. Mus. Nat. Hist. N. Y. A. N. Helme.
4. Adult ♀ Coll. Murray Bay, Province of Quebec, Canada. T. Surber.
5. Adult ♀ Pres. Hyde Park, Chicago, Illinois. A. Ridgway.
6. Adult ♀ Exch. Long Island, Philips County, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.



7. Adult ♀ Exch. Dominica, West Indies. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
8. Adult ♂ Coll. Central San Domingo. G. K. Cherrie.
- 9-13. Juv. ♀ Coll. Central San Domingo. G. K. Cherrie.
14. Adult ♀ Pres. Laporte, Indiana. C. M. Barber.
15. Adult ♂ P. Upsala, Sweden. J. A. Loring.
- 16-17. Adult — P. Mindanao, Philippines.

### 328. *Mus alexandrinus* I. Geoffroy.

*Mus alexandrinus* I. Geoff., Descrip. Égypte, II, 1813, p. 733, Atl. pl. v, fig. 1. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 118. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 164. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 129. Zool. Ser.

#### BROWN RAT.

1. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.
2. Adult ♀ Exch. Gainesville, Florida. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
3. Adult ♂ Exch. Enterprise, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
4. Adult ♂ Coll. Enterprise, Florida. T. Surber.
5. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T. Surber.
- 6-7. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
8. Adult ♀ Exch. Trinidad, Cuba. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
9. Adult ♂ Coll. San Cristobal, San Domingo. G. K. Cherrie.
10. Adult ♀ Hybrid, *M. rattus* and *M. alexandrinus*. Coll. Catare, San Domingo. G. K. Cherrie.
11. Juv. ♀ Coll. Catare, San Domingo. G. K. Cherrie.
12. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.
- 13-14. Juv. ♂ Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
15. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.

### 329. *Mus rufescens* Gray.

*Mus rufescens* Gray, Charlesw. Mag. Nat. Hist., I, 1837, p. 585. Bonhote, Proc. Zool. Soc., 1900, p. 878.

*Mus alexandrinus* var. *rufescens* Thos., Proc. Zoöl. Soc., 1881, p. 534.

RUFIOUS RAT.

1. Adult — P. South India! Ward's Nat. Scien. Establ., Rochester, N. Y.

330. *Mus sylvaticus* Linnæus.

*Mus sylvaticus* Linn., Syst. Nat., 1, 1758, p. 62.

LONG-TAILED FIELD MOUSE.

1. Adult — P. Southern Europe! Ward's Nat. Scien. Establ., Rochester, N. Y.

331. *Mus musculus* Linnæus.

*Mus musculus* Linn., Syst. Nat., 1, 1758, p. 62. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 118. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., 14, Pt. 1, 1904, p. 162. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., 16, 1905, p. 130. Zoöl. Ser.

HOUSE MOUSE.

- 1-3. Adult ♂ P. Waterloo County, Province of Ontario, Canada. G. F. Dippie.
- 4-5. Adult ♀ P. Waterloo County, Province of Ontario, Canada. G. F. Dippie.
6. Adult ♀ Coll. Trout Creek, Province of Ontario, Canada. L. Kenkel.
7. Adult ♂ Exch. New York City. Am. Mus. Nat. Hist. N. Y.
8. Adult ♀ Exch. New York City. Am. Mus. Nat. Hist. N. Y.
- 9-11. Adult ♂ P. Jackson Park, Chicago, Illinois. W. Brandler.
12. Adult ♀ P. Jackson Park, Chicago, Illinois. W. Brandler.
13. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
14. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
15. Adult ♂ Coll. Venta Salada, State of Puebla, Mexico. F. E. Lutz.
16. Adult ♀ Coll. Venta Salada, State of Puebla, Mexico. F. E. Lutz.
- 17-18. Adult ♂ Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.
- 19-28. Adult ♂ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

- 29-34. Adult ♀ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.
- 35-42. Adult ♂ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.
- 43-47. Adult ♀ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.
48. Adult ♂ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
49. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
50. Adult ♂ Coll. Catare, San Domingo. G. K. Cherrie.
- 51-53. Adult ♀ Coll. Catare, San Domingo. G. K. Cherrie.
54. Adult — Pres. Andros Island, Bahamas. C. B. Cory.
55. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 56-57. Adult ♀ P. Fairbank, Arizona. W. W. Price.
58. Adult ♂ P. Show Low, Arizona. W. W. Price.
- 59-60. Adult ♀ P. Chiricahua Mountains, Arizona. W. W. Price.
61. Adult ♀ P. Wilcox, Arizona. W. W. Price.
62. Adult ♂ P. Greenhorn Mountains, Colorado. C. K. Mason.
63. Adult ♀ P. Fremont County, Colorado. C. K. Mason.
- 64-65. Adult ♀ P. Los Angeles, California. J. Rowley.
66. Adult ♀ P. Riverside, California. E. Heller.
67. Adult ♂ Coll. Daggett, California. E. Heller.
68. Adult ♂ Coll. Lone Pine, California. E. Heller.
69. Adult ♂ P. Snow Mountains, California. W. W. Price.
70. Adult ♂ P. Portola, California. W. W. Price.

#### Genus 116. **Uromys.**

**Uromys** Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1867, p. 343. Type *Mus macropus* Gray.

#### 332. **Uromys bruijni** Peters & Doria.

*Uromys bruijni* Peters & Doria, Ann. Mus. Genov., VIII, 1876, p. 336; 1881, p. 704, pl. XVII.

#### BRUIJN'S RAT.

1. Adult — P. Mt. Gayata, Richardson Range, Queensland, Australia. E. Gerrard & Sons.

#### Genus 117. **Pogonomys.**

**Pogonomys** A. Milne-Edw., Compt. Rend., Paris, LXXXV, 1877, p. 1081. Type *Mus (Pogonomys) macrourus* A. Milne-Edwards.  
*Chiruromys* Thos., Proc. Zool. Soc., 1888, p. 237, figs.

Subgenus A. *Chiruromys*.**333. *Pogonomys lamia* Thomas.***Pogonomys lamia* Thos., Ann. Mus. Genov., XVIII, 1897, p. 615.**SORCERER RAT.**

1. Adult — P. Mt. Gayata, Richardson Range, Queensland, Australia. E. Gerrard & Sons.

Subfamily IV. **Cricetinae.**Genus 118. **Cricetus.****Cricetus** Leske, Anfangs. Naturg., I, 1779, p. 168. Type *Mus cricetus* Linnæus.**334. *Cricetus cricetus* (Linnæus).***Mus cricetus* Linn., Syst. Nat., I, 1758, p. 60.*Cricetus frumentarius* Pall., Zoog. Ross.-Asiat., I, 1811, p. 161.*Cricetus vulgaris* Desm., Nouv. Dict. Hist. Nat., 1819, p. 168.**HAMSTER.**

1. Adult ♂ P. Germany. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ P. Brunswick, Germany. J. A. Loring.
3. Juv. ♂ P. Brunswick, Germany. J. A. Loring.
- 4-7. Juv. ♀ P. Brunswick, Germany. J. A. Loring.

Genus 119. **Nesomys.****Nesomys** Peters, Sitzungs. Gesell. Naturf. Freunde Berlin, 1870, p. 54. Type *Nesomys rufus* Peters.**335. *Nesomys rufus* Peters.***Nesomys rufus* Peters, Sitzungs. Gesell. Naturf. Freunde Berlin, 1870, p. 54.**RED MADAGASCAR RAT.**

1. Adult ♂ P. Ampilambe, Madagascar. C. I. Forsyth-Major.

Genus 120. **Brachyuromys.****Brachyuromys** Forsyth-Major, Ann. Mag. Nat. Hist., 6th Ser., XVIII, 1896, p. 322. Type *Brachyuromys ramirohitra* Forsyth-Major.



**336. *Brachyuromys ramirohitra* Forsyth-Major.**

*Brachyuromys ramirohitra* F.-Major, Ann. Mag. Nat. Hist., 6th Ser., XVIII, 1896, p. 322.

**SHORT-TAILED MADAGASCAR RAT.**

1. Adult ♂ P. Ampilambe, Madagascar. C. I. Forsyth-Major.

**337. *Brachyuromys betsileoensis* (Bartlett).**

*Nesomys betsileoensis* Bartlett, Proc. Zool. Soc., 1879, p. 770.

**BETSILEO RAT.**

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

**Genus 121. *Gymnuromys*.**

***Gymnuromys*** Forsyth-Major, Ann. Mag. Nat. Hist., 6th Ser., XVIII, 1896, p. 324. Type *Gymnuromys roberti* Forsyth-Major.

**338. *Gymnuromys roberti* Forsyth-Major.**

*Gymnuromys roberti* F.-Major, Ann. Mag. Nat. Hist., 6th Ser., XVIII, 1896, p. 324.

**ROBERT'S MADAGASCAR RAT.**

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

**Genus 122. *Eliurus*.**

***Eliurus*** A. Milne-Edwards, Ann. Scien. Nat. Paris, 6me. Sér., Zool., xx, 1885, Art. No. 1 bis, p. 1. Type *Eliurus myoxinus* A. Milne-Edwards.

**339. *Eliurus minor* Forsyth-Major.**

*Eliurus minor* F.-Major, Ann. Mag. Nat. Hist., 6th Ser., XVIII, 1896, p. 462.

**SMALL MADAGASCAR RAT.**

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

**340. *Eliurus majori* Thomas.**

*Eliurus majori* Thos., Ann. Mag. Nat. Hist., 6th Ser., xvi, 1895, p. 164.

**MAJOR'S MADAGASCAR RAT.**

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

**341. *Eliurus tanala* Forsyth-Major.**

*Eliurus tanala* F.-Major, Ann. Mag. Nat. Hist., 6th Ser., XVIII, 1896, p. 462.

## TANALA RAT.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

Genus 123. **Onychomys.**

**Onychomys** Baird, N. Am. Mamm., 1857, p. 458. Type *Hypudæus leucogaster* Maximilian.

*Hypudæus* Max., Reise N. Am., II, 1841, p. 99. (nec Auct.)

**342. Onychomys leucogaster** (Maximilian).

*Hypudæus leucogaster* Max., Reise N. Am., II, 1841, p. 99.

*Mus missouriensis* Aud. & Bach., Quad. N. Amer., II, 1851, p. 327, pl. 100.

*Onychomys leucogaster* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 119, fig. 29. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 130. Zoöl. Ser.

## WHITE-BELLIED MOLE MOUSE.

1-2. Adult ♂ Coll. Minot, North Dakota. W. E. Snyder.

3. Adult ♀ Coll. Minnewaukon, North Dakota. W. E. Snyder.

4. Adult ♂ P. Dickinson, North Dakota. G. K. Cherrie.

5. Adult ♀ Exch. Pendennis, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

6. Adult ♂ Exch. Perch Rock County, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

7. Adult ♂ Exch. Mt. Beaver River, Indian Territory. Am. Mus. Nat. Hist. N. Y. J. Richardson.

8-9. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.

10-14. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.

15. Juv. ♂ Coll. White Horse Spring, Oklahoma Territory. T. Surber.

16-17. Adult ♂ Coll. Paladura Cañon, Texas. T. Surber.

18. Adult — P. Kansas. Ward's Nat. Scien. Establ., Rochester, N. Y.

*a. Onychomys leucogaster brevicaudus* Merriam.

*Onychomys leucogaster brevicaudus* Merr., N. Am. Faun., No. 5, 1891, p. 52. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 120. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 130. Zoöl. Ser.

SHORT-TAILED MOLE MOUSE.

1. Adult ♂ Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 2-3. Adult ♀ Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

*a. Onychomys melanophrys pallescens* Merriam.

*Onychomys melanophrys pallescens* Merr., N. Am. Faun., No. 3, 1890, p. 61. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 166. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 131. Zoöl. Ser.

*Onychomys leucogaster pallescens* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 121. Zoöl. Ser.

PALE MOLE MOUSE.

- 1-2. Adult ♂ P. Holbrook, Arizona. W. W. Price.
- 3-4. Adult ♀ P. Holbrook, Arizona. W. W. Price.

**343. *Onychomys ramona* Rhoads.**

*Onychomys ramona* Rhoads, Amer. Nat., 1893, p. 833. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 121. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 167. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 132. Zoöl. Ser.

RAMONA MOLE MOUSE.

- 1-2. Adult ♀ P. Herron's Ranch, California. F. Stephens.

**344. *Onychomys torridus* (Coues).**

*Hesperomys (Onychomys) torridus* Coues, Proc. Acad. Nat. Scien. Phil., 1874, p. 183.

*Onychomys torridus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 122. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 167, figs. 32, xxxvi. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 133. Zoöl. Ser.

TROPICAL MOLE MOUSE.

- 1-3. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.
- 4-8. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.
9. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
- 10-18. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 19-24. Adult ♀ P. Fairbank, Arizona. W. W. Price.
25. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.

**345. *Onychomys macrotis* Elliot.**

*Onychomys macrotis* Elliot, Pub. Field Columb. Mus., III, 1903, p. 155. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 169. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 134. Zoöl. Ser.

**LARGE-EARED MOLE MOUSE.**

1. Adult ♂ Coll. El Alamo, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
2. Adult ♀ Type. Coll. Head of San Antonio River, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
3. Adult ♀ Coll. Trinidad, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
4. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.

**346. *Onychomys pulcher* Elliot.**

*Onychomys pulcher* Elliot, Pub. Field Columb. Mus., III, 1903, p. 243. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 134. Zoöl. Ser.

**BEAUTIFUL MOLE MOUSE.**

- 1-3. Adult ♂ Paratypes. Coll. Morongo Pass, San Bernardino Mts., California. E. Heller.
- 4-5. Adult ♀ Type and paratypes. Coll. Morongo Pass, San Bernardino Mts., California. E. Heller.
6. Adult ♂ Coll. Burn's Cañon, California. E. Heller.
7. Adult ♀ Coll. Burn's Cañon, California. E. Heller.
8. Adult ♂ Coll. Daggett, California. E. Heller.
9. Adult ♂ Coll. Lane's Mill, California. E. Heller.
10. Adult ♂ Coll. Warren's Well, California. E. Heller.
11. Juv. ♂ Coll. Arab Spring, Coso Mts., California. E. Heller.
12. Juv. ♀ Coll. Arab Spring, Coso Mts., California. E. Heller.
13. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.

**Genus 124. *Peromyscus*. Field Mice.**

***Peromyscus*** Gloger, Hand-u. Hilfsb. Naturg., I, 1841, pp. xxx, 95.

Type *Peromyscus arboreus* Gloger = *Mus sylvaticus noveboracensis* Fischer.

*Calomys* Aud. & Bach., Quad. N. Amer., II, 1851, p. 303. (nec Waterhouse, 1837).

*Sitomys* Fitzinger, Sitzungsab. Math.-Nat. Cl. K. Akad. Wiss. Wien, LVI, 1867, p. 97.



*Vesperimus* Coues, Proc. Acad. Nat. Scien. Phil., 1874, p. 178.

*Baiomys* True, Proc. U. S. Nat. Mus., xvi, 1894, p. 758.

*Trinodontomys* Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p. 257.

*Haplomyiomys* Osgood, Proc. Biol. Soc. Wash., xvii, 1904, p. 53.

Subgenus A. *Baiomys*.

**347. *Peromyscus taylori* (Thomas).**

*Hesperomys taylori* Thos., Ann. Mag. Nat. Hist., 5th Ser., xix, 1887, p. 66.

*Peromyscus taylori* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 141. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 135. Zoöl. Ser.

**TAYLOR'S MOUSE.**

1. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

2. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

*a. Peromyscus musculus brunneus* Allen & Chapman.

*Peromyscus musculus brunneus* Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 203. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 176. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 136. Zoöl. Ser.

**JALAPA BROWN MOUSE.**

1. Adult ♂ Exch. Jalapa, State of Vera Cruz, Mexico. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

2. Adult ♀ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

3-7. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

8-10. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

Subgenus B. *Haplomyiomys*.

**348 *Peromyscus eremicus* (Baird).**

*Hesperomys eremicus* Baird, N. Am. Mamm., 1857, p. 479.

*Peromyscus eremicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 136. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 191. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,  
VI, 1905, p. 136. Zool. Ser.

DESERT MOUSE.

1. Adult ♂ P. Big Lagrina, Colorado Desert, California. F. Stephens.
2. Adult ♀ P. New River, Colorado Desert, California. F. Stephens.
3. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 4-12. Adult ♂ Coll. Palm Springs, California. E. Heller.
- 13-19. Adult ♀ Coll. Palm Springs, California. E. Heller.
- 20-24. Adult ♂ Coll. Whitewater, California. E. Heller.
- 25-27. Adult ♀ Coll. Whitewater, California. E. Heller.
- 28-34. Adult ♂ Coll. Morongo Pass, California. E. Heller.
- 35-40. Adult ♀ Coll. Morongo Pass, California. E. Heller.
41. Adult ♂ Coll. Warren's Well, California. E. Heller.
42. Adult ♀ Coll. Warren's Well, California. E. Heller.
43. Adult ♂ Coll. Daggett, California. E. Heller.
44. Adult ♀ Coll. Furnace Creek, California. E. Heller.
- 45-47. Adult ♂ Coll. Furnace Creek, California. E. Heller.
- 48-49. Adult ♂ Coll. Oro Grande, California. E. Heller.
- 50-51. Adult ♂ P. La Puerta, San Diego County, California. F. Stephens.
- 52-53. Adult ♀ P. La Puerta, San Diego County, California. F. Stephens.
- 54-55. Adult ♂ P. San Felipe Cañon, San Diego County, California. F. Stephens.
56. Adult ♂ P. San Felipe Valley, San Diego County, California. F. Stephens.
57. Adult ♂ P. Vallecito, California. F. Stephens.
58. Adult ♂ P. Jacumba, California. F. X. Holzner.
- 59-66. Adult ♂ Coll. Cañon Esperanza, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 67-70. Adult ♂ Coll. San Matias Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 71-75. Adult ♀ Coll. San Matias Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
76. Adult ♀ Coll. Head of San Antonio River, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 77-78. Adult ♂ Coll. Rosarito Divide, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 79-80. Adult ♀ Coll. Rosarito Divide, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

- 81-82. Adult ♂ Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 83-84. Adult ♀ Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
85. Adult ♂ Coll. Palomar, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 86-87. Adult ♂ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 88-89. Adult ♀ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
90. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
- 91-92. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
- 93-100. Adult ♂ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
- 101-103. Adult ♀ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
- 104-108. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 109-111. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
112. Adult ♂ Coll. Trinidad, Lower California, Mexico. E. Heller.

### 349. *Peromyscus anthonyi* (Merriam).

- Hesperomys anthonyi* Merr., Proc. Biol. Soc. Wash., iv, 1887, p. 5.
- Peromyscus anthonyi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 141. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 185. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 137. Zoöl. Ser.

#### ANTHONY'S MOUSE.

1. Adult ♀ Exch. Fort Verde, California. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

### 350. *Peromyscus californicus* (Gambel).

- Mus californicus* Gambel, Proc. Acad. Nat. Scien. Phil., 1848, p. 78.
- Peromyscus californicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 137. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 203. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 137. Zoöl. Ser.



## CALIFORNIA MOUSE.

- 1-129. Adult ♂ P. Portola, San Mateo County, California. W. Price.  
 130-222. Adult ♀ P. Portola, San Mateo County, California. W. Price.  
 223-279. Adult ♂ P. Alum Rock Park, Santa Clara County, California. W. W. Price.  
 280-340. Adult ♀ P. Alum Rock Park, Santa Clara County, California. W. W. Price.  
 341-352. Adult ♂ P. Mount Hamilton, Santa Clara County, California. W. W. Price.  
 353-355. Adult ♀ P. Mount Hamilton, Santa Clara County, California. W. W. Price.  
 356-362. Adult ♂ P. Carmel River, Monterey County, California. W. W. Price.  
 363-366. Adult ♀ P. Carmel River, Monterey County, California. W. W. Price.  
 367. Adult ♂ P. Pescadero, San Mateo County, California. E. Heller.  
 368. Adult — P. Big Basin, California. G. A. Coleman.  
 369. Adult — P. La Honda, California. G. A. Coleman.  
 370. Juv. — P. San Lorenzo Creek, California. G. A. Coleman.

Subgenus C. *Peromyscus*.351. *Peromyscus metallicola* Elliot.

*Peromyscus metallicola* Elliot, Pub. Field Columb. Mus., III, 1903, p. 245. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 192. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 138. Zoöl. Ser.

## MINE HAUNTING MOUSE.

- 1-5. Adult ♂ Type and paratypes. P. Providentia Mines, State of Sonora, Mexico. J. Rowley.  
 6-7. Adult ♀ Paratypes. P. Providentia Mines, State of Sonora, Mexico. J. Rowley.

352. *Peromyscus niveiventris* (Chapman).

*Hesperomys niveiventris* Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1889, p. 117.

*Peromyscus niveiventris* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 141. Zoöl. Ser. *Id.* Check-L. Mamm. N.



Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 138. Zoöl. Ser.

**WHITE-BELLIED MOUSE.**

- 1-2. Adult ♂ Exch. Jupiter Inlet, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
3. Adult ♀ Exch. Jupiter Inlet, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 4-5. Juv. ♂ Exch. Jupiter Inlet, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
6. Adult ♂ Coll. Oak Lodge, Florida. T. Surber.
7. Adult — Coll. Oak Lodge, Florida. T. Surber.
8. Adult ♂ Coll. Opp. Micco, Florida. T. Surber.
9. Adult — Coll. Opp. Micco, Florida. T. Surber.

*a. Peromyscus niveiventris phasma* (Bangs).

*Peromyscus phasma* Bangs, Proc. Bost. Soc. Nat. Hist., 1898, p. 199. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 142. Zoöl. Ser.

*Peromyscus niveiventris phasma* Elliot, Pub. Field Columb. Mus., III, 1901, p. 41. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 138. Zoöl. Ser.

**ANASTASIA ISLAND MOUSE.**

- 1-11. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T. Surber.
- 12-25. Adult ♀ Coll. Espanita, Anastasia Island, Florida. T. Surber.

**353. *Peromyscus subgriseus* (Chapman).**

*Sitomys subgriseus* Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 340.

*Peromyscus subgriseus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 142. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 139. Zoöl. Ser.

**CHAPMAN'S MOUSE.**

- 1-7. Adult ♂ Topotypes. Coll. Gainesville, Florida. T. Surber.
- 8-11. Adult ♀ Topotypes. Coll. Gainesville, Florida. T. Surber.

**354. *Peromyscus hemionotis* Elliot.**

*Peromyscus hemionotis* Elliot, Pub. Field Columb. Mus., III, 1903, p. 157. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 199. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 139. Zoöl. Ser.

## MULE-EARED MOUSE.

1. Adult ♂ Type. Coll. Rosarito Divide, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

355. *Peromyscus oresterus* Elliot.

*Peromyscus oresterus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 159. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 200. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 139. Zoöl. Ser.

## MOUNTAIN LOVING MOUSE.

- 1-8. Adult ♂ Paratypes. Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 9-12. Adult ♀ Type and paratypes. Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
13. Adult ♂ Coll. Aguaje de las Fresas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
14. Adult ♀ Coll. Aguaje de las Fresas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 15-19. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
20. Adult ♀ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.

356. *Peromyscus leucopus* (Rafinesque).

*Mus agrarius americanus* Kerr, Anim. Kingd., I, 1792, p. 231. (nec Kerr, 1792.)

*Musculus leucopus* Rafn., Am. Month. Mag., III, 1818, p. 446.

*Peromyscus americanus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 124, fig. 30. Zoöl. Ser.

*Peromyscus leucopus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Suppl., p. 492. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 140. Zoöl. Ser.

## WHITE-FOOTED DEER MOUSE.

1. Adult ♂ Exch. Hastings, N. Y. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
2. Adult ♀ Exch. Hastings, N. Y. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 3-4. Adult ♂ Exch. Nyack, N. Y. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 5-6. Adult ♀ Exch. Nyack, N. Y. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.

7. Adult ♀ Exch. Millerplace, Suffolk Co., Long Island, N. Y. Am. Mus. Nat. Hist. N. Y. A. H. Helme.
8. Adult ♀ Exch. Stamford, N. Y. Am. Mus. Nat. Hist. N. Y. W. Dutcher.
9. Adult ♂ Exch. Nordhoff, New Jersey. Am. Mus. Nat. Hist. N. Y. Richardson.
10. Adult ♀ Exch. Hackensack Marsh, New Jersey. Am. Mus. Nat. Hist. N. Y. Chapman & Granger.
11. Adult ♀ Exch. Fairview, New Jersey. Am. Mus. Nat. Hist. N. Y. Chapman & Granger.
12. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
13. Adult ♀ P. White Sulphur Springs, West Virginia. T. Surber.
- 14-16. Adult ♂ Pres. White Sulphur Springs, West Virginia. T. Surber.
- 17-19. Adult ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
20. Juv. ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
- 21-23. Adult ♂ Coll. Black Mountain, West Virginia. T. Surber.
- 24-25. Adult ♀ Coll. Black Mountain, West Virginia. T. Surber.
- 26-32. Adult ♂ Pres. Hicksville, Ohio. S. E. Meek.
- 33-34. Adult ♀ Pres. Hicksville, Ohio. S. E. Meek.
35. Juv. ♂ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
36. Juv. ♀ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
37. Adult ♀ Exch. Camp Douglas, Wisconsin. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 38-40. Adult ♂ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
41. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. Brimley.
42. Adult ♂ P. Knoxville, Iowa. G. K. Cherrie.
- 43-45. Adult ♂ Pres. Laporte, Indiana. C. M. Barber.
- 46-47. Adult ♀ Pres. Laporte, Indiana. C. M. Barber.
48. Adult — Pres. Mitchell, Indiana. S. E. Meek.
- 49-51. Adult ♂ P. Park Siding, Iron County, Michigan. C. Brandler.

52-53. Adult ♀ P. Park Siding, Iron County, Michigan. C. Brandler.

54. Adult ♀ Exch. Syracuse, New York. Am. Mus. Nat. Hist. N. Y. M. M. Green.

a. *Peromyscus leucopus noveboracensis* (Fischer).

*Mus sylvaticus noveboracensis* Fischer, Syn. Mamm., 1829, p. 318.

*Cricetus myoides* Gapper, Zool. Jour., v, 1830, p. 204, pl. x.

*Peromyscus leucopus myodes* Rhoads, Proc. Acad. Nat. Scien. Phil., 1897, p. 27.

*Peromyscus americanus noveboracensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 125. Zool. Ser.

*Peromyscus leucopus noveboracensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 140. Zool. Ser.

NORTHERN WHITE-FOOTED DEER MOUSE.

1. Juv. ♂ Coll. Gravenhurst, Ontario, Canada. L. Kenkel.

b. *Peromyscus leucopus deserticola* (Mearns).

*Hesperomys leucopus deserticolus* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 285.

*Peromyscus americanus deserticolus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 125. Zool. Ser.

*Peromyscus texensis deserticola* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 188. Zool. Ser.

*Peromyscus leucopus deserticola* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 140. Zool. Ser.

DESERT WHITE-FOOTED MOUSE.

1-7. Adult ♂ Coll. Morongo Pass, California. E. Heller.

8-12. Adult ♀ Coll. Morongo Pass, California. E. Heller.

13. Adult ♂ Coll. Banning, California. E. Heller.

14. Adult ♀ Coll. Banning, California. E. Heller.

15. Adult ♂ Coll. Victor, California. E. Heller.

16. Adult ♂ Coll. Whitewater, California. E. Heller.

17-19. Adult ♂ Pres. Bear Valley, California. E. Heller.

20-21. Adult ♀ Pres. Bear Valley, California. E. Heller.

22. Adult ♂ Pres. Little Bear Valley, California. E. Heller.

23. Adult ♀ Pres. San Bernardino Mts., California. E. Heller.

24. Adult ♂ Pres. San Bernardino Mts., California. E. Heller.



25. Adult ♀ Pres. Julian, California. E. Heller.  
26. Adult ♂ Pres. Bluff Lake, California. E. Heller.  
27. Adult ♀ Pres. Bluff Lake, California. E. Heller.  
28. Adult ♂ Pres. Riverside, California. E. Heller.  
29. Adult ♀ Pres. Riverside, California. E. Heller.  
30-32. Adult ♂ Coll. Palm Springs, California. E. Heller.  
33-34. Adult ♀ Coll. Palm Springs, California. E. Heller.  
35. Adult ♀ Coll. Warren's Well, San Bernardino Mts., California. E. Heller.  
36. Adult ♂ Coll. Warren's Well, San Bernardino Mts., California. E. Heller.  
37. Adult ♂ Coll. Burn's Cañon, San Bernardino Mts., California. E. Heller.  
38-43. Adult ♂ Coll. Oro Grande, California. E. Heller.  
44. Adult ♀ Coll. Oro Grande, California. E. Heller.  
45-49. Adult ♂ Coll. Coal Kilns, Panamint Mts., California. E. Heller.  
50. Adult ♀ Coll. Coal Kilns, Panamint Mts., California. E. Heller.  
51. Adult ♂ Coll. Wild Rose Spring, Panamint Mts., California. E. Heller.  
52-61. Adult ♂ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.  
62-69. Adult ♀ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.  
70. Adult ♂ Coll. Monachee Meadows, Mt. Whitney, California. E. Heller.  
71-72. Adult ♀ Coll. Monachee Meadows, Mt. Whitney, California. E. Heller.  
73. Adult ♀ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.  
74. Adult ♂ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.  
75-82. Adult ♂ Coll. Hot Springs, Mt. Whitney, California. E. Heller.  
83-86. Adult ♀ Coll. Hot Springs, Mt. Whitney, California. E. Heller.  
87-93. Adult ♂ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.  
94. Adult ♀ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.

95. Juv. ♀ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.
- 96-97. Adult ♂ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
- 98-100. Adult ♀ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
- 101-102. Adult ♂ Coll. Coso Mountains, California. E. Heller.
- 103-105. Adult ♂ Coll. Inyo Mountain, summits E. of Lone Pine, California. E. Heller.
- 106-110. Adult ♀ Coll. Inyo Mountain, summits E. of Lone Pine, California. E. Heller.
- 111-117. Adult ♂ Coll. Lone Pine, Owens Valley, California. E. Heller.
- 118-122. Adult ♀ Coll. Lone Pine, Owens Valley, California. E. Heller.
- 123-128. Adult ♂ Coll. Fort Tejon, mouth of Cañada de las Uvas, California. E. Heller.
- 129-132. Adult ♀ Coll. Fort Tejon, mouth of Cañada de las Uvas, California. E. Heller.
- 133-136. Adult ♂ Coll. Fort Tejon, California. E. Heller.
- 137-138. Adult ♂ Coll. Piru Creek, Bailey's Ranch, California. E. Heller.
- 139-140. Adult ♀ Coll. Piru Creek, Bailey's Ranch, California. E. Heller.
- 141-142. Adult ♂ Coll. Lockwood Valley, Mount Pinos, California. E. Heller.
- 143-144. Adult ♀ Coll. Lockwood Valley, Mount Pinos, California. E. Heller.
- 145-146. Adult ♂ Coll. Neenach, California. E. Heller.
- 147-148. Adult ♀ Coll. Neenach, California. E. Heller.
149. Adult ♂ P. Cameron Lake, Colorado Desert, California. F. Stephens.
150. Adult ♂ Pres. Sorrento, California. E. Heller.
- c. Peromyscus leucopus arizonæ* (Allen).  
*Sitomys americanus arizonæ* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 321.  
*Peromyscus americanus arizonæ* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 125. Zoöl. Ser.  
*Peromyscus texensis arizonæ* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 186. Zoöl. Ser.  
*Peromyscus leucopus arizonæ* Elliot, Syn. N. Am. Mamm., F. C.

M. Pub., II, 1901, Suppl., p. 492. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 140. Zoöl. Ser.

ARIZONA WHITE-FOOTED DEER MOUSE.

- 1-13. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 14-21. Adult ♀ P. Fairbank, Arizona. W. W. Price.
- 22-23. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
- 24-26. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.
- 27-40. Juv. ♂ P. S-B. Ranch, Arizona. W. W. Price.
- 41-43. Juv. ♀ P. S-B. Ranch, Arizona. W. W. Price.
- 44. Adult — P. S-B. Ranch, Arizona. W. W. Price.
- 45. Adult ♀ P. Gouteras, State of Sonora, Mexico. B. C. Condit.

d. *Peromyscus leucopus minnesotæ* Mearns.

*Peromyscus leucopus minnesotæ* Mearns, Proc. Biol. Soc. Wash., XIV, 1901, p. 154. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 141. Zoöl. Ser.

MINNESOTA WHITE-FOOTED DEER MOUSE.

- 1-2. Adult ♀ Topotypes. Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 3. Juv. ♀ Topotype. Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

357. *Peromyscus sonoriensis* (Le Conte).

*Hesperomys sonoriensis* Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p. 413.

*Peromyscus americanus sonoriensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 125. Zoöl. Ser.

*Peromyscus leucopus sonoriensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Suppl., p. 492. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 181, fig. xxxvii. Zoöl. Ser.

*Peromyscus sonoriensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 141. Zoöl. Ser.

SONORA WHITE-FOOTED FIELD MOUSE.

- 1-24. Adult ♂ P. Woodfords, Alpine County, California. W. W. Price.
- 25-46. Adult ♀ P. Woodfords, Alpine County, California. W. W. Price.
- 47. Adult ♂ P. Blue Lake, Alpine County, California. W. W. Price.
- 48. Adult ♀ P. Blue Lake, Alpine County, California. W. W. Price.

- 49-135. Adult ♂ P. Mount Siegel, Douglas County, Nevada. W. W. Price.
- 136-238. Adult ♀ P. Mount Siegel, Douglas County, Nevada. W. W. Price.
239. Adult ♀ P. Echo, Colorado County, California. W. W. Price.
- 240-255. Adult ♂ P. Winters Mine, Douglas County, Nevada. W. W. Price.
- 256-262. Adult ♀ P. Winters Mine, Douglas County, Nevada. W. W. Price.
263. Adult ♂ P. Edgewood, Douglas County, Nevada. W. W. Price.
- 264-265. Adult ♀ P. Edgewood, Douglas County, Nevada. W. W. Price.
- 266-273. Adult ♂ P. Anderson's Ranch, Douglas County, Nevada. W. W. Price.
- 274-280. Adult ♀ P. Anderson's Ranch, Douglas County, Nevada. W. W. Price.
- 281-290. Adult ♂ P. Holbrook, Arizona. W. W. Price.
- 291-292. Adult ♀ P. Show Low, Arizona. W. W. Price.
- a. Peromyscus sonoriensis fulvus* Osgood.  
*Peromyscus sonoriensis fulvus* Osgood, Proc. Biol. Soc. Wash., xvii, 1904, p. 57. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 142. Zool. Ser.  
*Peromyscus leucopus fulvus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 183. Zool. Ser.
- FULVOUS FIELD MOUSE.
- 1-12. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.
- 13-20. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.
358. *Peromyscus labecula* Elliot.  
*Peromyscus labecula* Elliot, Pub. Field Columb. Mus., iii, 1903, p. 143. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 178. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 142. Zool. Ser.
- WHITE-SPOT FIELD MOUSE.
- 1-11. Adult ♂ Type and paratypes. Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.
- 12-25. Adult ♀ Paratypes. Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.



26. Juv. — Paratype. Coll. Ocotlan, State of Michoacan, Mexico. F. E. Lutz.  
 27. Adult ♂ Coll. Patzcuaro, State of Jalisco, Mexico. F. E. Lutz.

**359. *Peromyscus rufinus* (Merriam).**

*Hesperomys leucopus rufinus* Merr., N. Am. Faun., No. 3, 1890, p. 65, pl. 3.

*Peromyscus rufinus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 126. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 142. Zoöl. Ser.

**TAWNY FIELD MOUSE.**

1. Adult ♂ Exch. Florida, La Plata County, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
2. Adult ♀ Exch. Florida, La Plata County, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 3-4. Adult ♂ Exch. Aztec, New Mexico. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
5. Adult ♂ Exch. La Plata, New Mexico. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 6-7. Adult ♂ Exch. Riverview, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
8. Juv. ♂ Exch. Riverview, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
9. Adult ♀ Exch. Riverview, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
10. Juv. ♀ Exch. Riverview, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
11. Adult ♂ Exch. Lawrence, Kansas. Am. Mus. Nat. Hist. N. Y. L. L. Dyche.
- 12-13. Adult ♂ Coll. Grand Junction, Colorado. Riggs & Menke.
14. Adult ♀ Coll. Grand Junction, Colorado. Riggs & Menke.
- 15-49. Adult ♂ P. Chiricahua Mountains, Arizona. W. W. Price.
- 50-66. Adult ♀ P. Chiricahua Mountains, Arizona. W. W. Price.
67. Juv. ♂ P. Chiricahua Mountains, Arizona. W. W. Price.
68. Juv. ♀ P. Chiricahua Mountains, Arizona. W. W. Price.
- 69-77. Adult ♂ P. Graham Mountains, Arizona. W. W. Price.

- 78-81. Adult ♀ P. Graham Mountains, Arizona. W. W. Price.  
 82-106. Adult ♂ P. White Mountains, Arizona. W. W. Price.  
 107-115. Adult ♀ P. White Mountains, Arizona. W. W. Price.  
 116-117. Adult — P. White Mountains, Arizona. W. W. Price.

**360. *Peromyscus \*gossypinus* (Le Conte).**

*Hesperomys gossypinus!* (misprint) Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p. 411.

*Peromyscus gossypinus!* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 126. Zoöl. Ser.

*Peromyscus gossypinus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 143. Zoöl. Ser.

**COTTON TREE MOUSE.**

1-6. Adult ♂ Exch. Gainesville, Florida. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

7-15. Adult ♀ Exch. Gainesville, Florida. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

16-17. Adult ♂ Coll. New Berlin, Florida. T. Surber.

18. Adult. — Coll. New Berlin, Florida. T. Surber.

19. Adult ♀ Coll. St. Charles Creek, Florida. T. Surber.

20-23. Adult ♂ Coll. Riceboro, Georgia. T. Surber.

24-25. Adult ♀ Coll. Riceboro, Georgia. T. Surber.

26. Juv. ♂ Coll. Riceboro, Georgia. T. Surber.

27. Adult ♀ Exch. Enterprise, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.

**a. *Peromyscus gossypinus palmarius* Bangs.**

*Peromyscus gossypinus! palmarius* Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 124. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 127. Zoöl. Ser.

*Peromyscus gossypinus palmarius* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 143. Zoöl. Ser.

**FLORIDA FIELD MOUSE.**

1-2. Adult ♂ Coll. Micco, Florida. T. Surber.

3. Juv. ♂ Coll. Micco, Florida. T. Surber.

4-5. Adult ♀ Coll. Micco, Florida. T. Surber.

6-7. Adult ♂ Coll. E. Penin., opp. Micco, Florida. T. Surber.

8-9. Adult ♀ Coll. E. Penin., opp. Micco, Florida. T. Surber.

10-11. Adult ♂ Topotypes. Coll. Oak Lodge, Florida. T. Surber.

12-13. Adult ♂ Coll. Tarpon Springs, Florida. T. Surber.

14-15. Adult ♀ Coll. Tarpon Springs, Florida. T. Surber.

*\*Gossypinus*, the cotton tree, also *gossypion*, nec *gossypinus!*

16-20. Adult ♂ Coll. Crystal River, Florida. T. Surber.

21-25. Adult ♀ Coll. Crystal River, Florida. T. Surber.

26-32. Adult ♂ Coll. Enterprise, Florida. T. Surber.

33-34. Juv. ♂ Coll. Enterprise, Florida. T. Surber.

35-38. Adult ♀ Coll. Enterprise, Florida. T. Surber.

### 361. *Peromyscus anastasiae* Bangs.

*Peromyscus anastasiae* Bangs, Proc. Bost. Soc. Nat. Hist., xxviii, 1898, p. 195.

*Peromyscus anastasiae* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 128. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 143. Zoöl. Ser.

#### ANASTASIA ISLAND MOUSE.

1-5. Adult ♂ Coll. Anastasia Island, Florida. T. Surber.

6-8. Adult ♀ Coll. Anastasia Island, Florida. T. Surber.

9. Juv. ♀ Coll. Anastasia Island, Florida. T. Surber.

### 362. *Peromyscus canadensis* (Miller).

*Hesperomys gracilis* Le Conte, Proc. Acad. Nat. Scien. Phil., 1855, p. 442. (Indeterminable.)

*Hesperomys myoides* Baird, N. Am. Mamm., 1857, p. 472. (nec Gapper.)

*Sitomys americanus canadensis* Miller, Proc. Biol. Soc. Wash., VIII, 1893, p. 55.

*Peromyscus canadensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 128. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 144. Zoöl. Ser.

#### CANADIAN FIELD MOUSE.

1-6. Adult ♂ Coll. Murray Bay, Quebec, Canada. T. Surber.

7-10. Adult ♀ Coll. Murray Bay, Quebec, Canada. T. Surber.

11. Juv. ♂ Coll. Murray Bay, Quebec, Canada. T. Surber.

12. Juv. ♀ Coll. Murray Bay, Quebec, Canada. T. Surber.

13-17. Adult ♂ Coll. Rivière du Loup, Quebec Canada. T. Surber.

18-19. Adult ♀ Coll. Rivière du Loup, Quebec, Canada. T. Surber.

20. Juv. ♂ Coll. Salmon Lake, Quebec, Canada. T. Surber.

21. Adult ♂ Exch. Tobique River, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

22. Adult ♀ Exch. Tobique River, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

23. Juv. ♂ Exch. Tobique River, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

24. Adult ♂ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 25-26. Adult ♀ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
27. Adult — Exch. Forks of the Tobique River, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
- 28-29. Adult ♀ Exch. South Twin Lake, Maine. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
30. Adult ♂ Coll. Trout Creek, Ontario, Canada. L. Kenkel.
31. Adult ♀ Coll. Trout Creek, Ontario, Canada. L. Kenkel.
- 32-33. Adult ♀ Coll. Gravenhurst, Ontario, Canada. L. Kenkel.

**363. *Peromyscus texensis* (Woodhouse).**

*Hesperomys texana!* Woodhouse, Proc. Acad. Nat. Scien. Phil., 1853, p. 242.

*Peromyscus texensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 130. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 186. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 145. Zoöl. Ser.

**TEXAS FIELD MOUSE.**

1. Adult ♂ \*Type of description. Exch. Tejon Creek, Indian Territory. Am. Mus. Nat. Hist. N. Y. Richardson.

**a. *Peromyscus texensis gambeli* (Baird).**

*Hesperomys gambelii* Baird, N. Am. Mamm., 1857, p. 464.

*Peromyscus texensis gambeli* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 130. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 145. Zoöl. Ser.

**GAMBEL'S MOUSE.**

- 1-53. Adult ♂ P. Silver Lake, Amador County, California. W. W. Price.
- 54-114. Adult ♀ P. Silver Lake, Amador County, California. W. W. Price.
- 115-117. Adult ♂ P. Blue Lake, Alpine County, California. W. W. Price.
118. Adult ♀ P. Blue Lake, Alpine County, California. W. W. Price.
- 119-131. Adult ♂ P. Pyramid Peak, Eldorado County, California. W. W. Price.
- 132-151. Adult ♀ P. Pyramid Peak, Eldorado County, California. W. W. Price.

\*Type of this species was preserved in spirits, and the colors could not be given.



- 152-161. Adult ♂ P. Big Trees, Calaveras County, California. W. W. Price.
162. Adult ♀ P. Big Trees, Calaveras County, California. W. W. Price.
- 163-171. Adult ♂ P. Hermit Valley, Calaveras County, California. W. W. Price.
- 172-175. Adult ♀ P. Hermit Valley, Calaveras County, California. W. W. Price.
- 176-186. Adult ♂ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
- 187-194. Adult ♀ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
- 195-196. Adult ♂ P. Mt. Hamilton, California. W. W. Price.
197. Adult ♂ P. Echo, Eldorado County, California. W. W. Price.
198. Adult ♀ P. Bloods, Calaveras County, California. W. W. Price.
- 199-212. Adult ♂ P. Snow Mountains, Colusa County, California. W. W. Price.
- 213-223. Adult ♀ P. Snow Mountains, Colusa County, California. W. W. Price.
- 224-225. Adult ♂ P. La Honda, San Mateo County, California. W. W. Price.
226. Adult ♀ P. La Honda, San Mateo County, California. W. W. Price.
227. Adult ♂ P. Edgewood, Douglas County, Nevada. W. W. Price.
- 228-233. Adult ♂ Coll. Nicasio, California. E. Heller.
- 234-235. Adult ♀ Coll. Nicasio, California. E. Heller.
- 236-238. Adult ♂ Coll. Petaluma, California. E. Heller.
239. Adult ♀ Coll. Petaluma, California. E. Heller.
- 240-251. Adult ♂ P. Los Angeles, California. J. Rowley.
- 252-253. Adult ♀ P. Los Angeles, California. J. Rowley.
- 254-255. Adult ♂ P. Stanford University, Palo Alto, California. M. P. Anderson.
- 256-257. Adult ♀ P. Stanford University, Palo Alto, California. M. P. Anderson.
- 258-338. Adult ♂ P. Portola, San Mateo County, California. W. W. Price.
- 339-414. Adult ♀ P. Portola, San Mateo County, California. W. W. Price.
- 415-417. Adult — P. Portola, San Mateo County, California. W. W. Price.

*b. Peromyscus texensis nebrascensis* (Mearns):

*Hesperomys leucopus nebrascensis* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 287.

*Peromyscus texensis nebrascensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 130. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 146. Zoöl. Ser.

NEBRASKA FIELD MOUSE.

- 1-2. Adult ♂ Exch. Coral Draw, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
3. Adult ♀ Exch. Coral Draw, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 4-5. Adult ♂ Exch. Spring Creek, Custer County, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
6. Adult ♂ Exch. Cheyenne River, Custer County, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 7-8. Adult ♀ Exch. Perch, Rock County, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
9. Adult ♀ Exch. Long Island, Phillips County, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 10-13. Adult ♂ Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
14. Adult ♀ Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

*c. Peromyscus texensis arcticus* (Mearns).

*Hesperomys leucopus arcticus* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 285.

*Peromyscus texensis arcticus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 131. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 146. Zoöl. Ser.

ARCTIC FIELD MOUSE.

- 1-2. Juv. ♂ P. Kensington, Prince Edward Island, Canada. R. T. Young.
3. Adult ♂ P. Cariboo, British Columbia, Canada. C. K. Worthen.

*d. Peromyscus texensis subarcticus* Allen.

*Peromyscus texanus subarcticus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 15.

*Peromyscus texensis subarcticus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 131. Zoöl. Ser. *Id.* Check-L. Mamm.

N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 146.  
Zool. Ser.

SUBARCTIC FIELD MOUSE.

- 1-3. Adult ♂ Exch. Squaw Creek, Custer County, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
4. Adult ♀ Exch. Squaw Creek, Custer County, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 5-6. Adult ♂ Exch. Otto, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
7. Adult ♂ Exch. Sherman, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
8. Adult ♀ Exch. Sherman, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
9. Adult ♂ P. Yellowstone National Park. E. Thompson Seton.
- 10-11. Adult ♀ P. Yellowstone National Park. E. Thompson Seton.
- 12-36. Adult ♂ P. Boulder, Colorado. R. T. Young.
- 37-57. Adult ♀ P. Boulder, Colorado. R. T. Young.
- 58-62. Adult ♂ P. Nederland, Colorado. R. T. Young.
- 63-68. Adult ♀ P. Nederland, Colorado. R. T. Young.
- 69-73. Adult ♂ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.
- 74-76. Juv. ♂ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.
- 77-78. Adult ♀ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.
- 79-85. Adult ♂ P. Red Deer, Alberta, Canada. G. F. Dippie.
- 86-93. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.
94. Adult ♂ P. Okanagon Lake, British Columbia, Canada. G. F. Dippie.
95. Adult ♀ P. Okanagon Lake, British Columbia, Canada. G. F. Dippie.
96. Adult ♂ P. Okanagon Lake, British Columbia, Canada. A. C. Brooks.
97. Adult ♀ P. Okanagon Lake, British Columbia, Canada. A. C. Brooks.

*e. Peromyscus texensis thurberi* (Allen).

*Sitomys americanus thurberi* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 185.

*Peromyscus texanus medius* Mearns, Proc. U. S. Nat. Mus., 1896, p. 446.

*Peromyscus texensis medius* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 130. Zoöl. Ser.

*Peromyscus thurberi* Elliot, Pub. Field Columb. Mus., III, 1903, p. 212. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 176. Zoöl. Ser.

*Peromyscus texensis thurberi* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 146. Zoöl. Ser.

#### THURBER'S FIELD MOUSE.

1. Adult ♀ Exch. Guadalupe Valley, Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. A. W. Anthony.
2. Adult ♂ Paratype. Exch. San Pedro Martir Mts., Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. E. C. Thurber.
3. Adult ♀ Paratype. Exch. San Pedro Martir Mts., Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. E. C. Thurber.
4. Adult ♂ Exch. Eucinita, San Pedro Martir Mts., Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. E. C. Thurber.
5. Adult ♀ Exch. Ysadora, San Pedro Martir Mts., Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. E. C. Thurber.
- 6-13. Adult ♂ Coll. Ensenada, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 14-18. Adult ♀ Coll. Ensenada, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 19-21. Adult ♂ Coll. Trinidad, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 22-23. Adult ♀ Coll. Aguaje de las Fresas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
24. Adult ♂ Coll. El Alamo, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
25. Adult ♀ Coll. El Alamo, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
26. Adult ♂ Coll. San Matias Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
27. Adult ♀ Coll. Las Eucinas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 28-29. Adult ♂ Coll. Juncolito Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
30. Adult ♂ Coll. Head of San Antonio River, San Pedro Martir Mts., Lower California, Mexico. E. Heller.



- 31-34. Adult ♀ Coll. Head of San Antonio River, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 35-37. Adult ♂ Coll. Santa Rosa, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
38. Adult ♀ Coll. Santa Rosa, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
39. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 40-43. Adult ♂ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 44-45. Adult ♀ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 46-55. Adult ♂ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 56-59. Adult ♀ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 60-63. Adult ♂ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 64-65. Adult ♀ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
66. Adult ♂ Coll. Salado River Cañon, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
67. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.
68. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.
- 69-77. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 78-79. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 80-82. Adult ♂ P. San Antonio, California. W. W. Price.
83. Juv. ♂ P. San Antonio, California. W. W. Price.
- 84-86. Adult ♀ P. San Antonio, California. W. W. Price.
87. Adult ♂ P. Jamul, California. E. Heller.
88. Adult ♀ P. Cuyamaco, California. E. Heller.
89. Adult ♂ P. San Juan, California. E. Heller.
90. Adult ♀ P. San Juan, California. E. Heller.

**364. *Peromyscus akeleyi* Elliot.**

*Peromyscus akeleyi* Elliot, Pub. Field Columb. Mus., 1, 1899, p. 226. Zool. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 129. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 148. Zool. Ser.

## AKELEY'S FIELD MOUSE.

- 1-34. Adult ♂ Type and paratypes. Coll. Johnson's Ranch, Elwah River, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 35-42. Juv. ♀ Paratypes. Coll. Johnson's Ranch, Elwah River, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 43-47. Adult ♀ Paratypes. Coll. Johnson's Ranch, Elwah River, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 48-69. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
70. Juv. ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
71. Juv. ♀ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 72-90. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 91-113. Adult ♂ Coll. Boulder Creek, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 114-136. Adult ♀ Coll. Boulder Creek, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 137-146. Adult ♂ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 147-148. Adult ♀ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.

365. *Peromyscus homochroia* Elliot.

*Peromyscus homochroia* Elliot, Pub. Field Columb. Mus., III, 1903, p. 158. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 200. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 148. Zoöl. Ser.

## SAN QUENTIN MOUSE.

- 1-8. Adult ♂ Type and paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.
- 9-14. Adult ♀ Paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.
15. Adult ♂ Coll. Head of San Antonio River, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

366. *Peromyscus gaurus* Elliot.

*Peromyscus gaurus* Elliot, Pub. Field Columb. Mus., III, 1903, p.

157. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 199. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 148. Zoöl. Ser.

## FRISKY MOUSE.

- 1-3. Adult ♂ Paratypes. Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.  
4-6. Adult ♀ Type and paratypes. Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

367. *Peromyscus catalinae* Elliot.

- Peromyscus catalinae* Elliot, Pub. Field Columb. Mus., III, 1903, p. 160. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 149. Zoöl. Ser.

## CATALINA ISLAND MOUSE.

- 1-7. Adult ♂ Type and paratypes. P. Santa Catalina Island, California. J. Rowley.  
8-10. Adult ♀ Paratypes. P. Santa Catalina Island, California. J. Rowley.  
11-12. Juv. ♂ Paratypes. P. Santa Catalina Island, California. J. Rowley.  
13. Juv. ♀ Paratype. P. Santa Catalina Island, California. J. Rowley.

368. *Peromyscus austerus* (Baird).

- Hesperomys austerus* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 336.

- Peromyscus austerus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 132. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 149. Zoöl. Ser.

## TROUBLESOME FIELD MOUSE.

- 1-4. Adult ♂ Coll. Grant's Pass, Oregon. E. Heller.  
5. Adult ♀ Coll. Grant's Pass, Oregon. E. Heller.  
6-9. Adult ♂ Coll. Scottsburg, Oregon. E. Heller.  
10. Adult ♀ Coll. Scottsburg, Oregon. E. Heller.  
11-24. Adult ♂ Coll. Gardiner, Oregon. E. Heller.  
25-29. Adult ♀ Coll. Gardiner, Oregon. E. Heller.  
30-34. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.  
35-41. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.  
42-44. Adult ♂ Coll. Florence, Oregon. E. Heller.  
45-46. Adult ♀ Coll. Florence, Oregon. E. Heller.  
47-48. Adult ♀ Coll. Marshfield, Oregon. E. Heller.  
49. Adult ♂ Coll. Marshfield, Oregon. E. Heller.  
50. Adult ♂ Coll. Agness, Oregon. E. Heller.

- 51-52. Adult ♂ Coll. McCoy, Oregon. E. Heller.  
 53-57. Adult ♂ Exch. Campus of the University, Seattle, Washington. Univer. Washington. E. C. Starks.  
 58-61. Adult ♀ Exch. Campus of the University, Seattle, Washington. Univer. Washington. E. C. Starks.

**369. *Peromyscus perimecurus* Elliot.**

*Peromyscus perimecurus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 156. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 149. Zoöl. Ser.

**LONG-TAILED MOUSE.**

- 1-4. Adult ♀ Type and paratypes. Coll. Goldbeach, Oregon. E. Heller.  
 5. Adult ♂ Coll. Florence, Oregon. E. Heller.  
 6. Adult ♂ Coll. Gardiner, Oregon. E. Heller.  
 7. Adult ♀ Coll. Agness, Oregon. E. Heller.

**370. *Peromyscus mearnsi* (Allen).**

*Vesperimus mearnsii* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 300.

*Peromyscus mearnsi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 132. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 150. Zoöl. Ser.

**MEARNS'S FIELD MOUSE.**

1. Adult ♂ Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. F. B. Armstrong.  
 2. Adult ♀ Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. F. B. Armstrong.  
 3. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.  
 4-5. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.  
 6. Juv. ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

**371. *Peromyscus canus* Mearns.**

*Peromyscus canus* Mearns, Proc. U. S. Nat. Mus., 1896, p. 445. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 132. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 150. Zoöl. Ser.

**HOARY FIELD MOUSE.**

- 1-8. Adult ♂ Coll. White Horse Springs, Oklahoma Territory. T. Surber.  
 9-16. Adult ♀ Coll. White Horse Springs, Oklahoma Territory. T. Surber.



- 17-23. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.  
 24-25. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.  
 26. Juv. ♂ Coll. Alva, Oklahoma Territory. T. Surber.  
 27. Juv. ♀ Coll. Alva, Oklahoma Territory. T. Surber.  
 28-38. Adult ♂ Coll. Noble, Oklahoma Territory. T. Surber.  
 39-48. Adult ♀ Coll. Noble, Oklahoma Territory. T. Surber.  
 49-51. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat.  
 Hist. N. Y. H. P. Attwater.  
 52. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat.  
 Hist. N. Y. H. P. Attwater.  
 53. Adult ♂ Exch. Fort Clarke, Texas. Am. Mus. Nat.  
 Hist. N. Y. E. A. Mearns.  
 54. Adult ♀ Exch. Fort Clarke, Texas. Am. Mus. Nat.  
 Hist. N. Y. E. A. Mearns.  
 55. Juv. ♀ Exch. Fort Clarke, Texas. Am. Mus. Nat.  
 Hist. N. Y. E. A. Mearns.

### 372. *Peromyscus boylii* (Baird).

*Hesperomys boylii* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 335.

*Sitomys gilberti* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893,  
 p. 188.

*Peromyscus boylii* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,  
 1901, p. 132. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies,  
 F. C. M. Pub., IV, Pt. I, 1904, p. 195. Zoöl. Ser. *Id.* Check-L.  
 Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905,  
 p. 150. Zoöl. Ser.

#### BOYLE'S FIELD MOUSE.

- 1-12. Adult ♂ P. Alum Rock Park, Santa Clara County, Cal-  
 ifornia. W. W. Price.  
 13-15. Adult ♀ P. Alum Rock Park, Santa Clara County, Cali-  
 fornia. W. W. Price.  
 16-19. Juv. ♂ P. Alum Rock Park, Santa Clara County, Cali-  
 fornia. W. W. Price.  
 20-22. Juv. ♀ P. Alum Rock Park, Santa Clara County, Cali-  
 fornia. W. W. Price.  
 23-39. Adult ♂ P. Snow Mountains, Colusa County, California.  
 W. W. Price.  
 40-54. Adult ♀ P. Snow Mountains, Colusa County, California.  
 W. W. Price.  
 55-62. Adult ♂ P. Mt. Hamilton, Santa Clara County, Cali-  
 fornia. W. W. Price.  
 63-75. Adult ♀ P. Mt. Hamilton, Santa Clara County, Cali-  
 fornia. W. W. Price.

- 76-98. Adult ♂ P. Mt. Hamilton, Monterey County, California.  
W. W. Price.
- 99-111. Adult ♀ P. Mt. Hamilton, Monterey County, California.  
W. W. Price.
- 112-126. Adult ♂ P. San Antonio, San Bernardino County, California. W. W. Price.
- 127-144. Adult ♀ P. San Antonio, San Bernardino County, California. W. W. Price.

### 373. *Peromyscus rowleyi* (Allen).

- Sitomys rowleyi* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 76.
- Peromyscus rowleyi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
II, 1901, p. 134. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 151. Zoöl. Ser.

#### ROWLEY'S FIELD MOUSE.

1. Adult ♂ Paratype. Exch. Nolan's Ranch, San Juan River, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
2. Adult ♂ Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
3. Adult ♂ Exch. Bradshaw City, Arizona. Am. Mus. Nat. Hist. N. Y. H. H. Keays.
4. Adult ♂ Exch. Pinal County, Arizona. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.
5. Adult ♀ Exch. Pinal County, Arizona. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.

#### a. *Peromyscus rowleyi pinalis* (Miller).

- Sitomys rowleyi pinalis* Miller, Bull. Am. Mus. Nat. Hist. N. Y.,  
1893, p. 331.
- Peromyscus rowleyi pinalis* Elliot, Syn. N. Am. Mamm., F. C. M.  
Pub., II, 1901, p. 135. Zoöl. Ser. *Id.* Mamm. Middle Ame.  
& W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 189. Zoöl. Ser.  
*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.  
Pub., VI, 1905, p. 151. Zoöl. Ser.

#### ROWLEY'S PINE MOUSE.

- 1-18. Adult ♂ P. Huachuca Mts., Arizona. W. W. Price.
- 19-27. Adult ♀ P. Huachuca Mts., Arizona. W. W. Price.
- 28-29. Adult — P. Huachuca Mts., Arizona. W. W. Price.
- 30-47. Adult ♂ P. Chiricahua Mts., Arizona. W. W. Price.
- 48-59. Adult ♀ P. Chiricahua Mts., Arizona. W. W. Price.
60. Adult ♀ P. White Mts., Arizona. W. W. Price.
61. Adult ♂ P. Huaravas Mts., State of Sonora, Mexico.  
W. W. Price.

- 62-64. Adult ♀ P. Huaravas Mts., State of Sonora, Mexico. W. W. Price.  
 65. Adult ♂ P. Oposura Mts., State of Sonora, Mexico. W. W. Price.  
 66-67. Adult ♀ P. Oposura Mts., State of Sonora, Mexico. W. W. Price.

**374. *Peromyscus parasiticus* Elliot.**

*Peromyscus parasiticus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 244. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 151. Zoöl. Ser.

**PARASITE MOUSE.**

- 1-4. Adult ♂ Type and paratypes. Coll. Lone Pine, Inyo County, California. E. Heller.  
 5-6. Adult ♀ Paratypes. Coll. Lone Pine, Inyo County, California. E. Heller.

**a. *Peromyscus oreas rubidus* Osgood.**

*Peromyscus oreas rubidus* Osgood, Proc. Biol. Soc. Wash., XIV, 1901, p. 193. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 153. Zoöl. Ser.

**REDDISH MOUSE.**

- 1-6. Adult ♂ Topotypes. Coll. Mendocino, California. E. Heller.  
 7-8. Adult ♀ Topotypes. Coll. Mendocino, California. E. Heller.  
 9. Adult ♂ Coll. Point Reyes, California. E. Heller.  
 10. Adult ♀ Coll. Point Reyes, California. E. Heller.  
 11-15. Adult ♂ Coll. Eureka, California. E. Heller.  
 16-20. Adult ♀ Coll. Eureka, California. E. Heller.  
 21-26. Adult ♂ Coll. Crescent City, California. E. Heller.  
 27. Adult ♀ Coll. Crescent City, California. E. Heller.  
 28-38. Adult ♂ Coll. Requa, California. E. Heller.  
 39-46. Adult ♀ Coll. Requa, California. E. Heller.

**375. *Peromyscus auripectus* (Allen).**

*Sitomys auripectus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 75.

*Peromyscus auripectus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 134. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 153. Zoöl. Ser.

**GOLDEN BREASTED MOUSE.**

- 1-3. Adult ♂ P. Holbrook, Arizona. W. W. Price.  
 4-7. Adult ♀ P. Holbrook, Arizona. W. W. Price.

8. Adult ♂ Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.
9. Adult ♀ Exch. Uncompaghre Indian Reserv., Utah. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

### 376. *Peromyscus stephensi* Mearns.

*Peromyscus stephensi* Mearns, Proc. U. S. Nat. Mus., 1897, p. 721.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 136.  
 Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 190. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 153.  
 Zool. Ser.

*Peromyscus petraeus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 244. Zool. Ser.

### STEPHENS'S MOUSE.

- 1-3. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.
- 4-8. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.
- 9-13. Adult ♂ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
- 14-16. Adult ♀ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
17. Adult ♂ Coll. Bryan Mine, Coso Mts., California. E. Heller.
18. Adult ♀ Coll. Bryan Mine, Coso Mts., California. E. Heller.
- 19-21. Adult ♂ Coll. Lone Willow Spring, Panamint Mts., California. E. Heller.
- 22-26. Adult ♀ Coll. Copper City, Panamint Mts., California. E. Heller.
- 27-29. Adult ♂ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
30. Adult ♀ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
- 31-33. Adult ♂ Coll. Wild Rose Spring, Panamint Mts., California. E. Heller.
- 34-36. Adult ♀ Coll. Wild Rose Spring, Panamint Mts., California. E. Heller.
37. Adult ♀ Coll. Emigrant Spring, Panamint Mts., California. E. Heller.
38. Adult ♀ Coll. Coal Kilns, Panamint Mts., California. E. Heller.



- 39. Adult ♂ Coll. Daggett, California. E. Heller.
- 40-42. Adult ♂ Coll. Victor, California. E. Heller.
- 43-44. Adult ♀ Coll. Victor, California. E. Heller.
- 45-46. Adult ♂ Coll. Old Woman's Spring, California. E. Heller.
- 47. Adult ♀ Coll. Warren's Well, San Bernardino Mts., California. E. Heller.
- 48. Adult ♂ Coll. Burn's Cañon, San Bernardino Mts., California. E. Heller.
- 49-52. Adult ♂ Coll. Oro Grande, California. E. Heller.
- 53-56. Adult ♀ Coll. Oro Grande, California. E. Heller.
- 57. Adult ♂ Coll. Morongo Pass, California. E. Heller.
- 58-61. Adult ♂ Coll. Palm Springs, California. E. Heller.
- 62-64. Adult ♀ Coll. Palm Springs, California. E. Heller.
- 65. Adult ♂ P. San Felipe Valley, California. F. Stephens.
- 66. Adult ♀ P. San Felipe Valley, California. F. Stephens.
- 67. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.
- 68. Adult ♀ Coll. Ensenada, Lower California, Mexico. E. Heller.
- 69. Adult ♂ Coll. Cañon Esperanza, Lower California, Mexico. E. Heller.

### 377. *Peromyscus attwateri* Allen.

*Peromyscus attwateri* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 330. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 135. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 154. Zoöl. Ser.

#### ATTWATER'S FIELD MOUSE.

- 1-8. Adult ♂ Coll. Dougherty, Indian Territory. T. Surber.
- 9. Juv. ♂ Coll. Dougherty, Indian Territory. T. Surber.
- 10-21. Adult ♀ Coll. Dougherty, Indian Territory. T. Surber.
- 22. Adult ♂ Paratype. Exch. Turtle Creek, Kerr County, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
- 23. Adult ♀ Paratype. Exch. Turtle Creek, Kerr County, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
- 24. Juv. ♂ Paratype. Exch. Turtle Creek, Kerr County, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

### 378. *Peromyscus fraterculus* (Miller).

*Vesperimus fraterculus* Miller, Amer. Nat., XXVI, 1892, p. 261.  
*Peromyscus fraterculus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 136. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 184. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,  
VI, 1905, p. 155. Zool. Ser.

RELATED WHITE-FOOTED MOUSE.

- 1-2. Adult ♂ P. Jamul Ranch, San Diego County, California.  
F. Stephens.
- 3-4. Adult ♀ P. Jamul Ranch, San Diego County, California.  
F. Stephens.
5. Adult ♂ Topotype. P. Dulzura, San Diego County, California.  
F. Stephens.
6. Adult ♂ P. San Diego, California. F. Stephens.
7. Adult ♀ P. Aguanga, Riverside County, California. F.  
Stephens.
- 8-11. Adult ♂ Coll. Ensenada, Lower California, Mexico. E.  
Heller.
12. Adult ♀ Coll. Ensenada, Lower California, Mexico. E.  
Heller.
- 13-17. Adult ♂ Coll. Trinidad, Lower California, Mexico. E.  
Heller.
- 18-19. Adult ♀ Coll. Trinidad, Lower California, Mexico. E.  
Heller.
20. Adult ♂ Coll. Las Eucinas, San Pedro Martir Mts., Lower  
California, Mexico. E. Heller.
21. Adult ♀ Coll. Las Eucinas, San Pedro Martir Mts., Lower  
California, Mexico. E. Heller.
22. Adult ♀ Coll. Salado River Cañon, San Pedro Martir  
Mts., Lower California, Mexico. E. Heller.
- 23-25. Adult ♂ Coll. San Antonio, San Pedro Martir Mts., Lower  
California, Mexico. E. Heller.
- 26-29. Adult ♀ Coll. San Antonio, San Pedro Martir Mts., Lower  
California, Mexico. E. Heller.
30. Adult ♂ Coll. Rosarito, San Pedro Martir Mts., Lower  
California, Mexico. E. Heller.
- 31-32. Adult ♀ Coll. Rosarito, San Pedro Martir Mts., Lower  
California, Mexico. E. Heller.
- 33-36. Adult ♂ Coll. San Quentin, Lower California, Mexico.  
E. Heller.
- 37-39. Adult ♂ Coll. Head of San Antonio River, Lower Cali-  
fornia, Mexico. E. Heller.
- 40-42. Adult ♀ Coll. Head of San Antonio River, Lower Cali-  
fornia, Mexico. E. Heller.

**379. *Peromyscus major* (Rhoads).**

*Sitomys major* Rhoads, Amer. Nat., XXVII, 1893, p. 831.

*Peromyscus major* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
 II, 1901, p. 137. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 155. Zoöl. Ser.

SQUIRREL INN MOUSE.

- 1-2. Adult ♂ P. Cuyamaco, San Diego County, California.  
 E. Heller.
- 3-4. Juv. ♀ P. Cuyamaco, San Diego County, California. E.  
 Heller.
- 5-6. Adult ♂ P. Dulzura, San Diego County, California. E.  
 Heller.
7. Adult ♂ P. Oak Grove, San Diego County, California. E.  
 Heller.
8. Adult ♀ P. Julian, San Diego County, California. E.  
 Heller.
- 9-10. Adult ♀ P. Squirrel Inn, San Bernardino Mts., California.  
 E. Heller.
- 11-12. Adult ♀ Exch. Santa Ysabel, California. Am. Mus. Nat.  
 Hist. N. Y. F. Stephens.

380. *Peromyscus herroni* (Rhoads).

*Sitomys herronii* Rhoads, Amer. Nat., xxvii, 1893, p. 832.

*Peromyscus herroni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
 II, 1901, p. 137. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 155. Zoöl. Ser.

HERRON'S FIELD MOUSE.

- 1-3. Adult ♂ P. Aguanga, Riverside County, California. F.  
 Stephens.
4. Adult ♀ P. Aguanga, Riverside County, California. F.  
 Stephens.

381. *Peromyscus insignis* Rhoads.

*Peromyscus insignis* Rhoads, Proc. Acad. Nat. Scien. Phil., 1895,  
 p. 33. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p.  
 138. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C.  
 M. Pub., IV, Pt. 1, 1904, p. 203. Zoöl. Ser. *Id.* Check-L.  
 Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905,  
 p. 155. Zoöl. Ser.

SACHEM, OR CHIEF MOUSE.

1. Adult ♀ P. Santa Ysabel, San Diego County, California.  
 F. Stephens.
- 2-4. Adult ♂ Topotypes. P. Dulzura, San Diego County,  
 California. F. Stephens.
5. Adult ♀ Topotype. P. Dulzura, San Diego County,  
 California. F. Stephens.

6. Adult ♀ P. Jamul Ranch, San Diego County, California. F. Stephens.
- 7-8. Adult ♂ P. Witch Creek, San Diego County, California. F. Stephens.
- 9-10. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.
11. Adult ♂ Coll. Juncolito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 12-15. Adult ♂ Coll. Las Eucinas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 16-19. Adult ♀ Coll. Las Eucinas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
20. Adult ♀ Coll. Trinidad, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 21-22. Adult ♂ Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 23-24. Adult ♀ Coll. San Antonio, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
25. Adult ♂ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

### 382. *Peromyscus dyselius* Elliot.

*Peromyscus dyselius* Elliot, Pub. Field Columb. Mus., 1, 1898, p. 207. Zool. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 138. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 156. Zool. Ser.

#### BLACKISH FIELD MOUSE.

- 1-19. Adult ♂ Type and paratypes. P. Portola, California. W. W. Price.
- 20-29. Adult ♀ Paratypes. P. Portola, California. W. W. Price.
- 30-36. Adult ♂ P. Palo Alto, California. E. Heller.
- 37-38. Adult ♀ P. Palo Alto, California. E. Heller.
39. Adult — P. La Honda, Pescadero Creek, California. G. A. Coleman.
- 40-41. Adult — P. Sevates Ranch, San Lorenzo Creek, California. G. A. Coleman.
42. Adult ♂ P. Big Basin, California. G. A. Coleman.
- 43-44. Adult ♂ Coll. Grant's Pass, Oregon. E. Heller.

### 383. *Peromyscus floridanus* (Chapman).

*Hesperomys floridanus* Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1889, p. 117.

*Peromyscus floridanus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,



- 11, 1901, p. 138. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 156. Zoöl. Ser.

FLORIDA FIELD MOUSE.

- 1-3. Adult ♂ Exch. Enterprise, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.  
 4-6. Adult ♀ Exch. Enterprise, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.  
 7-10. Adult ♂ Coll. Enterprise, Florida. T. Surber.  
 11-13. Adult ♀ Coll. Enterprise, Florida. T. Surber.  
 14-16. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T. Surber.  
 17-21. Adult ♀ Coll. Espanita, Anastasia Island, Florida. T. Surber.  
 22-24. Adult ♂ Coll. Micco, Florida. T. Surber.  
 25-30. Adult ♀ Coll. Micco, Florida. T. Surber.  
 31. Adult ♂ Coll. Citronelle, Florida. T. Surber.  
 32-33. Adult ♀ Coll. Citronelle, Florida. T. Surber.  
 34. Adult ♂ Coll. Tarpon Springs, Florida. T. Surber.  
 35. Adult ♀ Coll. Crystal River, Florida. T. Surber.

384. *Peromyscus spicilegus* Allen.

- Peromyscus spicilegus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 50. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 179. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 156. Zoöl. Ser.

JALISCO SMALL-EARED MOUSE.

- 1-12. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.  
 13-19. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

385. *Peromyscus montipinoris* Elliot.

- Peromyscus montipinoris* Elliot, Pub. Field Columb. Mus., III, 1904, p. 264. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 157. Zoöl. Ser.

MOUNT PINOS MOUSE.

1. Adult ♂ Type. Coll. Mount Pinos, Lockwood Valley, California. E. Heller.  
 2. Adult ♂ Coll. Fort Tejon, California. E. Heller.  
 3. Adult ♀ Coll. Fort Tejon, California. E. Heller.

386. *Peromyscus lasius* Elliot.

- Peromyscus lasius* Elliot, Pub. Field Columb. Mus., III, 1904, p.

265. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 157. Zoöl. Ser.

#### WOOLLY MOUSE.

- 1-13. Adult ♂ Paratypes. Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.  
 14-15. Adult ♀ Type and paratypes. Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.  
 16-17. Adult ♂ Coll. Coal Kilns, Panamint Mts., California. E. Heller.  
 18. Adult ♀ Coll. Coal Kilns, Panamint Mts., California. E. Heller.  
 19-23. Adult ♂ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.  
 24-29. Adult ♀ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.

#### 387. *Peromyscus difficilis* (Allen).

*Vesperimus difficilis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 298.

*Peromyscus difficilis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 193. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 158. Zoöl. Ser.

#### TROUBLESOME MOUSE.

- 1-14. Adult ♂ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.  
 15-20. Adult ♀ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.  
 21. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.  
 22. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

#### 388. *Peromyscus sagax* Elliot.

*Peromyscus sagax* Elliot, Pub. Field Columb. Mus., III, 1903, p. 142. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 194. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 158. Zoöl. Ser.

#### LA PALMA FIELD MOUSE.

1. Adult ♂ Type. Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz.  
 2-5. Adult ♂ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

**389. *Peromyscus truei* (Shufeldt).**

*Hesperomys truei* Shufeldt, Proc. U. S. Nat. Mus., 1886, p. 407, pl. xxi, figs. 1, 5, 8.

*Peromyscus truei* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 139. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 159. Zoöl. Ser.

**TRUE'S MOUSE.**

1-7. Adult ♂ P. Anderson's Ranch, Douglas County, Nevada. W. W. Price.

8-16. Adult ♀ P. Anderson's Ranch, Douglas County, Nevada. W. W. Price.

17. Adult ♂ P. Mount Siegel, Douglas County, Nevada. W. W. Price.

**a. *Peromyscus truei nasutus* (Allen).**

*Vesperimus nasutus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 299.

*Peromyscus truei nasutus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 139. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 159. Zoöl. Ser.

**LONG-NOSED MOUSE.**

1-6. Adult ♂ P. Boulder, Colorado. R. T. Young

7-12. Adult ♀ P. Boulder, Colorado. R. T. Young.

**390. *Peromyscus martirensis* (Allen).**

*Sitomys martirensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 187.

*Peromyscus martirensis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 189. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 159. Zoöl. Ser.

**SAN PEDRO MARTIR MOUNTAINS MOUSE.**

1-2. Adult ♀ Coll. San Matias Spring, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

3. Adult ♂ Coll. Piñon, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

4. Adult ♀ Coll. Piñon, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

5-8. Adult ♂ Coll. Aguaje de las Fresas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

9-13. Adult ♀ Coll. Aguaje de las Fresas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

14-16. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

- 17-21. Adult ♀ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 22-25. Adult ♂ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 26-28. Adult ♀ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 29-30. Adult ♂ Coll. Santa Rosa, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 31-35. Adult ♀ Coll. Santa Rosa, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 36-42. Adult ♂ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 43-44. Adult ♀ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 45-46. Adult ♂ Coll. Agua Escondido, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 47-48. Adult ♀ Coll. Agua Escondido, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 49-57. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 58-65. Adult ♀ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 66-68. Adult ♂ Coll. Palomar, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 69-71. Adult ♀ Coll. Palomar, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
72. Adult ♀ Coll. Calaboza, Hanson Laguna Mts., Lower California, Mexico. E. Heller.

**391. *Peromyscus nuttalli* (Harlan).**

*Arvicola nuttalli* Harlan, Am. Month. Jour. Geol. & Nat. Scien. Phil., 1832, p. 446.

*Mus (Calomys) aureolus* Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 302.

*Peromyscus nuttalli* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 140. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 160. Zoöl. Ser.

**NUTTALL'S GOLDEN MOUSE.**

- 1-2. Adult ♂ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
- 3-4. Adult ♀ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.



5. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.
- 6-7. Adult ♂ Coll. Roanoke Rapids, North Carolina. T. Surber.
- 8-9. Adult ♀ Coll. Roanoke Rapids, North Carolina. T. Surber.
- 10-11. Juv. ♂ Coll. Roanoke Rapids, North Carolina. T. Surber.
- 12-18. Adult ♂ Coll. Apex, North Carolina. T. Surber.
- 19-20. Adult ♀ Coll. Apex, North Carolina. T. Surber.
- 21-28. Adult ♂ Coll. Calhoun Falls, South Carolina. T. Surber.
29. Juv. ♂ Coll. Calhoun Falls, South Carolina. T. Surber.
- 30-32. Adult ♀ Coll. Calhoun Falls, South Carolina. T. Surber.
- 33-35. Adult ♂ Coll. Catawba, South Carolina. T. Surber.

**392. *Peromyscus michiganensis* (Audubon & Bachman).**

*Mus michiganensis* Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 304.

*Peromyscus michiganensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 140. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 160. Zoöl. Ser.

**MICHIGAN FIELD MOUSE.**

1. Adult ♂ Exch. Denver, Indiana. Am. Mus. Nat. Hist. N. Y. C. F. Fite.
2. Adult ♀ Exch. Denver, Indiana. Am. Mus. Nat. Hist. N. Y. C. F. Fite.
3. Adult ♀ P. Knoxville, Iowa. G. K. Cherrie.
4. Juv. ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
5. Adult ♀ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 6-7. Adult ♂ Exch. Lawrence, Kansas. Am. Mus. Nat. Hist. N. Y. L. L. Dyche.
8. Adult ♀ Exch. Lawrence, Kansas. Am. Mus. Nat. Hist. N. Y. L. L. Dyche.
- 9-13. Adult ♂ P. Lawrence, Kansas. J. Rowley.
- 14-16. Adult ♀ P. Lawrence, Kansas. J. Rowley.
17. Adult ♂ Coll. Jackson Park, Chicago, Illinois. L. Kenkel.
18. Adult ♀ Coll. Jackson Park, Chicago, Illinois. L. Kenkel.
- 19-23. Adult — Coll. Jackson Park, Chicago, Illinois. L. Kenkel.
- 24-25. Adult ♂ Coll. Minnewaukon, North Dakota. W. E. Snyder.
26. Adult ♀ Coll. Minnewaukon, North Dakota. W. E. Snyder.

- 27-29. Adult ♂ Coll. Bottineau, North Dakota. W. E. Snyder.
- 30. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
- 31. Adult ♂ Coll. Oakes, North Dakota. W. E. Snyder.
- 32. Adult ♀ Coll. Oakes, North Dakota. W. E. Snyder.
- 33. Adult ♂ P. Dickinson, North Dakota. G. K. Cherrie.
- 34-36. Adult ♀ P. Dickinson, North Dakota. G. K. Cherrie.
- 37. Adult ♂ Pres. Fox Lake, Illinois. C. E. Akeley.
- 38. Juv. ♂ Pres. Fox Lake, Illinois. C. E. Akeley.
- 39. Adult ♂ Pres. Beaver Dam, Wisconsin. W. E. Snyder.

*a. Peromyscus michiganensis pallescens* Allen.

*Peromyscus michiganensis pallescens* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1896, p. 238. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 140. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 160. Zoöl. Ser.

PALE MICHIGAN MOUSE.

- 1-2. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

**393. *Peromyscus melanotis* Allen & Chapman.**

*Peromyscus melanotis* Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 203. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 178. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 161. Zoöl. Ser.

BLACK-EARED FIELD MOUSE.

- 1-13. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
- 14-22. Adult ♀ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

**394. *Peromyscus affinis* (Allen).**

*Hesperomys affinis* Allen, Proc. U. S. Nat. Mus., 1891, p. 195.  
*Peromyscus affinis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 180. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 161. Zoöl. Ser.

ALLIED FIELD MOUSE.

- 1. Adult ♂ Coll. State of Vera Cruz, Mexico. N. G. Buxton.
- 2. Adult ♀ Coll. State of Vera Cruz, Mexico. N. G. Buxton.
- 3-9. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 10-13. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

**395. *Peromyscus aztecus* (Saussure).**

*Hesperomys aztecus* Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 105.

*Peromyscus aztecus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 184. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 162. Zoöl. Ser.

**AZTEC MOUSE.**

1. Adult ♂ P. Mascota, State of Jalisco, Mexico. E. Gerrard & Sons. A. C. Buller.

**396. *Peromyscus levipes* Merriam.**

*Peromyscus levipes* Merr., Proc. Biol. Soc. Wash., XII, 1898, p. 123. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 195. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 164. Zoöl. Ser.

**MOUNT MALINCHE MOUSE.**

- 1-4. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.
- 5-8. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

**397. *Peromyscus pavidus* Elliot.**

*Peromyscus pavidus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 142. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 197. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 164. Zoöl. Ser.

**SHY FIELD MOUSE.**

1. Adult ♀ Type. Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.
- 2-3. Adult ♂ Paratypes. Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

**398. *Peromyscus nudipes* (Allen).**

*Hesperomys nudipes* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 213.

*Peromyscus nudipes* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 198. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 165. Zoöl. Ser.

**LA CARPINTERA FIELD MOUSE.**

- 1-10. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.



- 11-19. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.  
 20-25. Juv. ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.  
 26-28. Juv. ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

**399. *Peromyscus mexicanus* (Saussure).**

*Hesperomys mexicanus* Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 103, pl. IX, figs. 1, 1a.

*Peromyscus mexicanus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 207. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 168. Zoöl. Ser.

**MEXICAN MOUSE.**

- 1-10. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.  
 11-18. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.  
 19. Adult ♀ Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.  
 20-22. Adult ♂ Coll. Lagunas, State of Oaxaca, Mexico. Heller & Barber.  
 23-27. Adult ♀ Coll. Lagunas, State of Oaxaca, Mexico. Heller & Barber.  
 28-36. Adult ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.  
 37-39. Adult ♀ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.  
 40-45. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.  
 46. Adult ♀ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.  
 47. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

**400. *Peromyscus furvus* Allen & Chapman.**

*Peromyscus furvus* Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 201. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 208, fig. 33. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 169. Zoöl. Ser.

**JALAPA FIELD MOUSE.**

1. Adult ♀ Paratype. Exch. Jalapa, State of Vera Cruz, Mexico. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.



Genus 125. **Megadontomys.**

**Megadontomys** Merr., Proc. Biol. Soc. Wash., XII, 1898, p. 115.  
Type *Peromyscus thomasi* Merriam.

**401. Megadontomys flavidus** Bangs.

*Megadontomys flavidus* Bangs, Bull. Mus. Comp. Zool., xxxix, 1902, p. 27. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 214. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 172. Zool. Ser.

## BOQUETE FIELD MOUSE.

- 1-3. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
4. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

Genus 126. **Rhipidomys.**

**Rhipidomys** Tschudi, Archiv f. Naturgesch., I, 1844, p. 252. Type *Hesperomys leucodactylus* Tschudi.

**402. Rhipidomys venezuelæ** Thomas.

*Rhipidomys venezuelæ* Thos., Ann. Mag. Nat. Hist., XVIII, 1896, p. 303.

## VENEZUELA FAN RAT.

1. Adult — P. Venezuela. Deyrolle Fils.

Genus 127. **Nectomys.**

**Nectomys** Peters, Abhand. K. Akad. Wiss. Berlin, 1861, p. 151, Taf. I, II, figs. 3-4. Type —?

**403. Nectomys palmipes** Allen & Chapman.

*Nectomys palmipes* Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 209.

## BROAD-FOOTED MOUSE.

1. Adult ♂ Exch. Caura, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
2. Adult ♀ Paratype. Exch. Princetown, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
3. Juv. ♂ Paratype. Exch. Princetown, Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

4. Adult ♀ P. Savannah Grande, Trinidad. E. Gerrard & Sons.  
P. Rendall.

**404. *Nectomys squamipes* (Lichtenstein).**

*Mus squamipes* Licht., Brants's Muiz., 1827, p. 138. *Id.* Peters,  
Abh. Akad. Berl., 1860, p. 148, pl. 11, fig. 1.

*Mus brasiliensis* Pictet, Mamm. Nouv. Mus. Genève, 1841, pl.  
12-14. (nec E. Geoff.)

**SWIMMING RAT.**

1. Adult — P. South America! Ward's Nat. Scien. Establ.,  
Rochester, N. Y.

Genus 128. **Sigmodon. Cotton Rats.**

**Sigmodon** Say & Ord, Jour. Acad. Nat. Scien. Phil., iv, 1825, p.  
352, pl. xxii, figs. 5-8. Type *Sigmodon hispidus* Say &  
Ord.

**405. *Sigmodon hispidus* Say & Ord.**

*Sigmodon hispidus* Say & Ord, Jour. Acad. Nat. Scien. Phil., 1825,  
p. 354. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901,  
p. 144, fig. 31. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 174. Zoöl. Ser.

*Arvicola ferrugineus* Harl., Am. Jour. Scien., 1828, p. 285.

*Arvicola hortensis* Harl., Med. & Phys. Res., 1835, p. 49, pl. fig. 58.

**HISPID COTTON RAT.**

- 1-10. Adult ♂ Coll. Calhoun Falls, South Carolina. T. Surber.  
11-15. Juv. ♂ Coll. Calhoun Falls, South Carolina. T. Surber.  
16-26. Adult ♀ Coll. Calhoun Falls, South Carolina. T. Surber.  
27-31. Juv. ♀ Coll. Calhoun Falls, South Carolina. T. Surber.  
32-35. Adult ♂ Coll. Riceboro, Georgia. T. Surber.  
36. Adult ♀ Coll. Riceboro, Georgia. T. Surber.  
37. Adult ♂ Coll. St. Marys, Georgia. T. Surber.  
38. Adult ♀ Coll. St. Marys, Georgia. T. Surber.  
39-44. Adult ♂ Coll. Gainesville, Florida. T. Surber.  
45. Adult ♀ Coll. Gainesville, Florida. T. Surber.  
46. Adult ♀ Exch. Gainesville, Florida. Am. Mus. Nat. Hist.  
N. Y. F. M. Chapman.

*a. Sigmodon hispidus littoralis* Chapman.

*Sigmodon hispidus littoralis* Chapman, Bull. Am. Mus. Nat. Hist.  
N. Y., 1889, p. 118. Elliot, Syn. N. Am. Mamm., F. C. M.  
Pub., 11, 1901, p. 144. Zoöl. Ser. *Id.* Check-L. Mamm. N.

Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 175.  
Zoöl. Ser.

# COAST COTTON RAT.

- 1-4. Adult ♂ Coll. Enterprise, Florida. T. Surber.
- 5-6. Adult ♀ Coll. Enterprise, Florida. T. Surber.
7. Juv. ♀ Coll. Enterprise, Florida. T. Surber.
- 8-10. Adult ♀ Exch. E. Penn., opposite Micco, Florida. Am.  
Mus. Nat. Hist. N. Y. F. M., Chapman.
- 11-12. Adult ♂ Coll. Tarpon Springs, Florida. T. Surber.
- 13-14. Adult ♂ Coll. Citronella, Florida. T. Surber.
15. Adult ♀ Coll. Citronella, Florida. T. Surber.
16. Adult ♂ Exch. Flamingo, Florida. Am. Mus. Nat. Hist.  
N. Y. C. L. Brownell.
17. Adult ♂ Coll. New Berlin, Florida. T. Surber.
18. Adult ♀ Coll. New Berlin, Florida. T. Surber.
19. Adult — Exch. Jupiter, Florida. Am. Mus. Nat. Hist.  
N. Y. C. L. Brownell.
- 20-21. Adult ♂ Coll. E. Penn., opp. Micco, Florida. T. Surber.
- 22-23. Adult ♂ Topotypes. Coll. Micco, Brevard Co., Florida.  
T. Surber.
24. Adult ♀ Topotype. Coll. Micco, Brevard Co., Florida.  
T. Surber.
- 25-28. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T.  
Surber.
- 29-32. Adult ♀ Coll. Espanita, Anastasia Island, Florida. T.  
Surber.

## b. *Sigmodon hispidus texensis* (Audubon & Bachman).

*Arvicola texiana!* Aud. & Bach., Quad. N. Am., III, 1853, p. 229.

*Sigmodon hispidus texensis* Elliot, Syn. N. Am. Mamm., F. C. M.  
Pub., II, 1901, p. 114. Zoöl. Ser. *Id.* Check-L. Mamm. N.  
Amer. & W. Indies, F. C. M. Pub., VI, 1905, p. 175. Zoöl. Ser.

# TEXAN COTTON RAT.

1. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist.  
N. Y. H. P. Attwater.
- 2-3. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist.  
N. Y. H. P. Attwater.
4. Adult ♂ Exch. Corpus Christi, Texas. Am. Mus. Nat.  
Hist. N. Y. F. M. Chapman.
5. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat.  
Hist. N. Y. H. P. Attwater.
6. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat.  
Hist. N. Y. H. P. Attwater.

7. Adult ♀ Exch. Cameron Co., Texas. Am. Mus. Nat. Hist. N. Y. C. K. Worthen.
8. Juv. ♂ Coll. Noble, Oklahoma Territory. T. Surber.
- 9-13. Juv. ♀ Coll. Noble, Oklahoma Territory. T. Surber.
- 14-17. Adult ♂ Coll. Dougherty, Oklahoma Territory. T. Surber.
- 18-20. Juv. ♀ Coll. Dougherty, Oklahoma Territory. T. Surber.

c. *Sigmodon hispidus arizonæ* Mearns.

- Sigmodon hispidus arizonæ* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 287. Elliot, Syn. N. Amer. Mamm., F. C. M. Pub., II, 1901, p. 144. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 228. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 176. Zoöl. Ser.

ARIZONA COTTON RAT.

- 1-4. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 5-7. Adult ♀ P. Fairbank, Arizona. W. W. Price.

d. *Sigmodon hispidus mascotensis* (Allen).

- Sigmodon mascotensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 54.
- Sigmodon colimæ* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 55.
- Sigmodon hispidus mascotensis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 227. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 176. Zoöl. Ser.

MASCOTA COTTON RAT.

1. Adult — Coll. Ocotlan, State of Michoacan, Mexico. F. E. Lutz.
2. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
3. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
4. Adult ♂ Coll. Zanatepec, State of Oaxaca, Mexico. Heller & Barber.

e. *Sigmodon hispidus inexoratus* Elliot.

- Sigmodon hispidus inexoratus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 144. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 229, fig. xxxviii. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 177. Zoöl. Ser.



## OCOTLAN COTTON RAT.

1-11. Adult ♂ Type and paratypes. Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

12-16. Adult ♀ Paratypes. Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

f. *Sigmodon hispidus toltecus* (Saussure).

*Hesperomys toltecus* Sauss., Rev. Mag. Zool., 2me Sér., 1860, p. 98.

*Sigmodon hispidus toltecus* Elliot, Mamm. Middle Amer. & W.

Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 226. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,

VI, 1905, p. 177. Zoöl. Ser.

## TOLTEC COTTON RAT.

1-5. Adult ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.

6-8. Adult ♀ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.

9-12. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.

13-15. Adult ♀ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.

16. Juv. ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

17. Juv. ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

18-20. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

21-22. Adult ♀ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

23-28. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

29-31. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

g. *Sigmodon hispidus boruca* (Allen).

*Sigmodon boruca* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 40.

*Sigmodon hispidus boruca* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 224, fig. 38. Zoöl. Ser.

*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 178. Zoöl. Ser.

## BORUCA COTTON RAT.

1-2. Adult ♀ Paratypes. Exch. Boruca, Costa Rica. Am. Mus. Nat. Hist. N. Y. G. K. Cherrie.

3. Adult ♀ Exch. San José, Costa Rica. Am. Mus. Nat. Hist. N. Y. G. K. Cherrie.

*h. Sigmodon hispidus chiriquensis* (Allen).

*Sigmodon boruce chiriquensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1904, p. 68.

*Sigmodon hispidus chiriquensis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 225. Zoöl. Ser.

*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 178. Zoöl. Ser.

BOQUERON COTTON RAT.

1. Juv. — P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

**406. *Sigmodon minimus* Mearns.**

*Sigmodon minimus* Mearns, Proc. U. S. Nat. Mus., XVII, 1894, p.

130. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 146. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 230. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 178. Zoöl. Ser.

LEAST COTTON RAT.

1. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.

**407. *Sigmodon leucotis* Bailey.**

*Sigmodon leucotis* Bailey, Proc. Biol. Soc. Wash., xv, 1902, p.

115. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 230. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 179. Zoöl. Ser.

WHITE-EARED COTTON RAT.

- 1-7. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

**408. *Sigmodon sanctæmartæ* Bangs.**

*Sigmodon sanctæmartæ* Bangs, Proc. Biol. Soc. Wash., XII, 1898, p. 189.

SANTA MARTA COTTON RAT.

- 1-2. Adult ♂ P. Minca, Colombia. H. H. Smith.

- 3-5. Adult ♂ P. Mamatoca, Colombia. H. H. Smith.

6. Adult ♀ P. Mamatoca, Colombia. H. H. Smith.

7. Adult — P. Aqua Dulce, Colombia. H. H. Smith.

- 8-10. Adult ♂ P. Masinga, Colombia. H. H. Smith.

Genus 129. **Oryzomys. Rice Rats.**

**Oryzomys** Baird, N. Am. Mamm., 1857, p. 458. Type *Mus palustris* Harlan.

*Oligoryzomys* Bangs, Proc. N. Eng. Zool. Club, 1, 1900, p. 94, pl. 1, fig. 2.

Subgenus A. **Oryzomys.****409. Oryzomys palustris** (Harlan).

*Mus palustris* Harl., Am. Jour. Scien. & Arts, xxxi, 1837, p. 385.

*Hesperomys palustris* Wagn., Schreb. Säugth., Suppl., III, 1843, p. 543.

*Arvicola oryzivora* Aud. & Bach., Quad. N. Am., III, 1853, p. 214, pl. cXLIV, fig. 3.

*Oryzomys palustris texensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 177. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 147. Zool. Ser.

*Oryzomys palustris* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 147. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 180. Zool. Ser.

**SWAMP RICE RAT.**

1. Adult ♂ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. Brimley.
- 2-3. Adult ♀ Coll. Calhoun Falls, South Carolina. T. Surber.
- 4-8. Adult ♂ Coll. Riceboro, Georgia. T. Surber.
9. Adult ♀ Coll. Riceboro, Georgia. T. Surber.
10. Adult ♂ Coll. St. Marys, Georgia. T. Surber.
11. Adult ♀ Coll. St. Marys, Georgia. T. Surber.
- 12-15. Adult ♂ Coll. New Berlin, Florida. T. Surber.
- 16-19. Adult ♀ Coll. New Berlin, Florida. T. Surber.
20. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
21. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
22. Adult ♂ Pres. Okefenoke Swamp, Charlton Co., Georgia. B. T. Gault.

**410. Oryzomys natator** (Chapman).

*Oryzomys palustris natator* Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 44. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 147. Zool. Ser.

*Oryzomys natator* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 181. Zool. Ser.

## SWIMMING RICE RAT.

- 1-2. Adult ♂ Paratypes. Exch. Gainesville, Florida. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
- 3-4. Adult ♀ Topotypes. Coll. Gainesville, Florida. T. Surber.
- 5-11. Adult ♂ Coll. Enterprise, Florida. T. Surber.
12. Juv. ♂ Coll. Enterprise, Florida. T. Surber.
- 13-15. Adult ♀ Coll. Enterprise, Florida. T. Surber.
- 16-18. Adult ♂ Coll. Micco, Florida. T. Surber.
19. Adult ♂ Exch. Flamingo, Florida. Am. Mus. Nat. Hist. N. Y. L. W. Brownell.
- 20-21. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T. Surber.
22. Adult ♀ Coll. Espanita, Anastasia Island, Florida. T. Surber.

411. *Oryzomys aquaticus* Allen.

*Oryzomys aquaticus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 289. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 147, fig. 32. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 181. Zoöl. Ser.

## AQUATIC RICE RAT.

1. Adult ♂ Paratype. Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. F. Armstrong.
2. Juv. ♀ Paratype. Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. F. Armstrong.

412. *Oryzomys albiventer* Merriam.

*Oryzomys albiventer* Merr., Proc. Wash. Acad. Scien., III, 1901, p. 279. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 236. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 182. Zoöl. Ser.

## WHITE-BELLIED RICE RAT.

1. Adult ♂ Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.
- 2-3. Adult ♀ Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.
4. Adult ♂ Coll. Balsas, State of Guerrero, Mexico. F. E. Lutz.

413. *Oryzomys molestus* Elliot.

*Oryzomys molestus* Elliot, Pub. Field Columb. Mus., III, 1903, p.



145. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 240, fig. xxxix. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 183. Zoöl. Ser.

#### OCOTLAN RICE RAT.

1. Adult ♂ Type. Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

#### 414. *Oryzomys jalapæ* Allen & Chapman.

- Oryzomys jalapæ* Allen & Chapm., Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 206. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 246. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 184. Zoöl. Ser.

#### JALAPA RICE RAT.

1. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
2. Adult ♀ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
3. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

#### a. *Oryzomys jalapæ apatelius* Elliot.

- Oryzomys jalapæ apatelius* Elliot, Pub. Field Columb. Mus., III, 1904, p. 266. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 246. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 184. Zoöl. Ser.

#### DECEITFUL RICE RAT.

- 1-2. Adult ♂ Paratypes. Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.
3. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
- 4-6. Adult ♀ Type and paratypes. Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.

#### 415. *Oryzomys chapmani* Thomas.

- Oryzomys chapmani* Thos., Ann. Mag. Nat. Hist., 7th Ser., I, 1898, p. 179. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 238. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 186. Zoöl. Ser.

#### CHAPMAN'S RICE RAT.

- 1-5. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

- 6-II. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

**416. *Oryzomys melanotis* Thomas.**

*Oryzomys melanotis* Thomas, Ann. Mag. Nat. Hist., 6th Ser., xi, 1893, p. 404. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 243. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 187. Zoöl. Ser.

**BLACK-EARED RICE RAT.**

1. Adult ♂ Exch. Jalapa, State of Vera Cruz, Mexico. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

**417. *Oryzomys rostratus* Merriam.**

*Oryzomys rostratus* Merr., Proc. Wash. Acad. Scien., iii, 1901, p. 293. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 243. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 188. Zoöl. Ser.

**BROAD-NOSE RICE RAT.**

- 1-5. Adult ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.  
6. Juv. ♂ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.  
7. Juv. ♀ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.

**418. *Oryzomys velutinus* Allen & Chapman.**

*Oryzomys velutinus* Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 214.

**TRINIDAD RICE RAT.**

1. Adult ♂ Paratype. Exch. Princetown, Island of Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

**419. *Oryzomys meridensis* Thomas.**

*Oryzomys meridensis* Thos., Ann. Mag. Nat. Hist., 6th Ser., xiv, 1894, p. 351.

**MERIDA RICE RAT.**

1. Adult — P. Venezuela. Deyrolle Fils.

**420. *Oryzomys maculiventer* Allen.**

*Oryzomys maculiventer* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 204.

**SPOTTED-BELLY RICE RAT.**

- 1-2. Adult ♂ Paratypes. P. El Libraro, Colombia, S. A. H. H. Smith.

- 3-4. Adult ♂ P. Valparaiso, Colombia, S. A. H. H. Smith.  
 5. Adult ♀ Paratype. P. El Librero, Colombia, S. A. H. H. Smith.  
 6-8. Adult — Paratypes. P. El Librero, Colombia, S. A. H. H. Smith.  
 9. Adult — P. Valparaiso, Colombia, S. A. H. H. Smith.

**421. *Oryzomys fulvescens* (Saussure).**

*Hesperomys fulvescens* Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 102.

*Oryzomys fulvescens* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 248. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 189. Zoöl. Ser.

**FULVOUS RICE RAT.**

1. Adult ♂ Exch. Jalapa, State of Vera Cruz, Mexico. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.  
 2-5. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.  
 6. Adult ♀ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.  
 7-8. Adult ♂ Coll. Rio Blanco, State of Vera Cruz, Mexico. N. G. Buxton.  
 9-10. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.  
 11-12. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

**422. *Oryzomys stolzmanni* Thomas.**

*Oryzomys longicaudatus* Thos., Proc. Zoöl. Soc., 1882, p. 104. (nec Bennett.)

*Oryzomys stolzmanni* Thos., Ann. Mag. Nat. Hist., 6th Ser., XIV, 1894, p. 357.

**STOLZMANN'S RICE RAT.**

1. Adult — P. Venezuela. Deyrolle Fils.

**Subgenus B. *Oligoryzomys*.**

**423. *Oryzomys costaricensis* Allen.**

*Oryzomys costaricensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 239. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 249, fig. 39. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 189. Zoöl. Ser.

*Oryzomys vegetus* Bangs, Bull. Mus. Comp. Zool., 1902, p. 35.  
 Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV,  
 Pt. I, 1904, p. 249, fig. 40. Zool. Ser.

EL GENERAL RICE RAT.

1. Adult ♂ Exch. Boruca, Costa Rica. Am. Mus. Nat. Hist.  
 N. Y. G. K. Cherrie.
- 2-3. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
- 4-6. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

**424. *Oryzomys minutus* (Tomes).**

*Hesperomys minutus* Tomes, Proc. Zool. Soc., 1860, p. 215.

LEAST RICE RAT.

1. Adult — P. Venezuela. Deyrolle Fils.

Genus 130. **Zygodontomys.**

**Zygodontomys** Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p.  
 38, pl. 1, figs. 1-7. Type *Oryzomys cherriei* Allen.

**425. *Zygodontomys cherrii* (Allen).**

*Oryzomys cherriei* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895,  
 p. 329.

*Zygodontomys cherrii* Elliot, Mamm. Middle Amer. & W. Indies,  
 F. C. M. Pub., IV, Pt. I, 1904, p. 253, figs. 42, XL. Zool. Ser.  
*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.  
 Pub., VI, 1905, p. 190. Zool. Ser.

CHERRIE'S RICE RAT.

- 1-2. Adult ♂ Paratypes. Exch. Boruca, Costa Rica. Am. Mus.  
 Nat. Hist. N. Y. G. K. Cherrie.
3. Adult ♀ Paratype. Exch. Boruca, Costa Rica. Am. Mus.  
 Nat. Hist. N. Y. G. K. Cherrie.
4. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

**426. *Zygodontomys chrysomelas* (Allen).**

*Hesperomys (Habrothrix) caliginosus* Allen, Bull. Am. Mus. Nat.  
 Hist. N. Y., 1891, p. 210. (nec Tomes.)

*Oryzomys chrysomelas* Allen, Bull. Am. Mus. Nat. Hist. N. Y.,  
 1897, p. 37.

*Zygodontomys chrysomelas* Elliot, Mamm. Middle Amer. & W.  
 Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 253. Zool. Ser. *Id.*  
 Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,  
 VI, 1905, p. 190. Zool. Ser.



## SUERRE RICE RAT.

1. Adult ♂ Paratype. Exch. Suerre, Costa Rica. Am. Mus. Nat. Hist. N. Y. A. Alfaro.

427. *Zygodontomys brevicaudus* (Allen & Chapman).

*Oryzomys brevicauda* Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 215.

*Zygodontomys brevicauda* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 38.

## SHORT-TAILED RICE RAT.

- 1-3. Adult ♂ Paratypes. Exch. Princetown, Island of Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
4. Adult ♀ Exch. Caura, Island of Trinidad. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

Genus 131. *Rhithrodontomys*. Harvest Mice.

*Reithrodontomys* (sic) Giglioli, Ricer. intern. Distrib. Geogr. Gen. Roma, 1873, p. 160. Type *Mus lecontei* Audubon & Bachman.

428. *Rhithrodontomys lecontei* (Audubon & Bachman).

*Mus lecontei* Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 307.

*Reithrodontomys lecontei* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 148, fig. 33. Zool. Ser.

*Rhithrodontomys lecontei* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 191. Zool. Ser.

## LE CONTE'S HARVEST MOUSE.

1. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
2. Juv. ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
3. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.
4. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. Brimley.
- 5-6. Adult ♂ Coll. Gainesville, Florida. T. Surber.
- 7-10. Adult ♀ Coll. Gainesville, Florida. T. Surber.
11. Juv. ♀ Coll. Gainesville, Florida. T. Surber.

a. *Rhithrodontomys lecontei impiger* Bangs.

*Reithrodontomys lecontei impiger* Bangs, Proc. Biol. Soc. Wash., XII, 1898, p. 167. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 149. Zool. Ser.

*Rhithrodontomys leontii impiger* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 191. Zoöl. Ser.

DILIGENT HARVEST MOUSE.

1. Adult ♂ Topotype. Pres. White Sulphur Springs, West Virginia. T. Surber.

b. *Rhithrodontomys leontii dickinsoni* (Rhoads).

*Reithrodontomys! humilis dickinsoni* Rhoads, Amer. Nat., xxix, 1895, p. 590.

*Reithrodontomys! leontei dickinsoni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 150. Zoöl. Ser.

*Rhithrodontomys leontii dickinsoni* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 192. Zoöl. Ser.

DICKINSON'S HARVEST MOUSE.

1. Adult ♂ Coll. Enterprise, Florida. T. Surber.

429. *Rhithrodontomys dychii* Allen.

*Ochetodon humilis* Coues, Proc. Acad. Nat. Scien. Phil., 1874, p. 185. (nec Aud. & Bachm.)

*Reithrodontomys! dychei* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 120. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 150. Zoöl. Ser.

*Rhithrodontomys dychii* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 192. Zoöl. Ser.

DYCHE'S HARVEST MOUSE.

1-4. Adult ♂ Topotypes. P. Lawrence, Kansas. J. Rowley.

5. Adult ♀ Exch. Perch, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

6. Adult ♂ Exch. Perch, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

7. Adult ♂ P. Boulder, Colorado. R. T. Young.

8. Adult ♀ P. Boulder, Colorado. R. T. Young.

9. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

10. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

11-26. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.

27-39. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.

a. *Rhithrodontomys dychii nebrascensis* Allen.

*Reithrodontomys! dychei nebrascensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 122. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 150. Zoöl. Ser.

*Rhithrodontomys dychii nebrascensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 192. Zoöl. Ser.

NEBRASKA HARVEST MOUSE.

1. Adult ♂ P. Boulder, Colorado. R. T. Young.

430. *Rhithrodontomys megalotis* (Baird).

*Reithrodon! megalotis* Baird, N. Am. Mamm., 1857, p. 451.

*Reithrodontomys! aztecus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 79.

*Reithrodontomys! megalotis deserti* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 127.

*Reithrodontomys! megalotis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 151. Zoöl. Ser.

*Rhithrodontomys megalotis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 259, figs. 43, XLI. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 193. Zoöl. Ser.



FIG. XXXII. RHITHRODONTOMYS MEGALOTIS.  
BIG-EARED HARVEST MOUSE.

BIG-EARED HARVEST MOUSE.

1-10. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.

11-12. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.

13. Adult ♀ Coll. Mount Pinos, California. E. Heller.



- 14. Adult ♂ Coll. Piru Creek, California. E. Heller.
- 15-16. Adult ♂ Coll. Fort Tejon, California. E. Heller.
- 17. Adult ♀ Coll. Fort Tejon, California. E. Heller.
- 18. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 19. Adult ♂ P. Woodfords, Alpine County, California. W. W. Price.
- 20. Adult ♂ Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

**431. *Rhithrodontomys longicaudus* (Baird).**

*Reithrodontomys longicauda* Baird, N. Am. Mamm., 1857, p. 451.

*Reithrodontomys longicaudus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 151. Zool. Ser.

*Rhithrodontomys longicaudus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 261. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 195. Zool. Ser.

**LONG-TAILED HARVEST MOUSE.**

- 1-19. Adult ♂ P. Portola, San Mateo County, California. W. W. Price.
- 20-37. Adult ♀ P. Portola, San Mateo County, California. W. W. Price.
- 38-47. Adult ♂ P. Los Angeles, California. J. Rowley.
- 48-50. Adult ♀ P. Los Angeles, California. J. Rowley.
- 51. Adult ♂ P. Stanford University, California. W. W. Price.
- 52-55. Adult ♂ Pres. Palo Alto, California. E. Heller.
- 56. Adult ♂ Coll. Nicasio, California. E. Heller.
- 57-62. Adult ♂ Topotypes. Coll. Petaluma, California. E. Heller.
- 63-64. Adult ♀ Topotypes. Coll. Petaluma, California. E. Heller.
- 65. Adult ♂ Coll. Mendocino, California. E. Heller.
- 66. Adult ♂ Coll. Eureka, California. E. Heller.
- 67. Adult ♀ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
- 68. Adult ♀ P. Chiricahua Mountains, Arizona. W. W. Price.

*a. Rhithrodontomys longicaudus pallidus* (Rhoads).

*Reithrodontomys pallidus* Rhoads, Amer. Nat., 1893, p. 835.

*Reithrodontomys longicaudus pallidus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 152. Zool. Ser.

*Rhithrodontomys longicaudus pallidus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 262. Zool. Ser.



*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 195. Zoöl. Ser.

PALLID HARVEST MOUSE.

- 1-3. Adult ♂ Coll. Oro Grande, Mohave Desert, California. E. Heller.
- 4-9. Adult ♀ Coll. Oro Grande, Mohave Desert, California. E. Heller.
- 10. Adult ♂ Coll. Trinidad, Lower California, Mexico. E. Heller.
- 11. Adult ♂ Coll. Las Eucinas, Lower California, Mexico. E. Heller.

432. *Rhithrodontomys chrysotis* Elliot.

*Reithrodontomys! chrysotis* Elliot, Pub. Field Columb. Mus., I, 1899, p. 281. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 152. Zoöl. Ser.

*Rhithrodontomys chrysotis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 195. Zoöl. Ser.

GOLDEN-EARED HARVEST MOUSE.

- 1-3. Adult ♂ Type and paratypes. Coll. Dougherty, Indian Territory. T. Surber.
- 4. Adult ♀ Paratype. Coll. Dougherty, Indian Territory. T. Surber.

433. *Rhithrodontomys catalinæ* Elliot.

*Rhithrodontomys catalinæ* Elliot, Pub. Field Columb. Mus., III, 1903, p. 246. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 195. Zoöl. Ser.

SANTA CATALINA ISLAND HARVEST MOUSE.

- 1. Adult ♂ Type. P. Santa Catalina Island, California. J. Rowley.

434. *Rhithrodontomys klamathensis* Merriam.

*Reithrodontomys! klamathensis* Merr., N. Am. Faun., No. 16, 1899, p. 93. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 152. Zoöl. Ser.

*Rhithrodontomys klamathensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 196. Zoöl. Ser.

KLAMATH HARVEST MOUSE.

- 1. Adult ♀ Coll. Grant's Pass, Oregon. E. Heller.

435. *Rhithrodontomys arizonensis* Allen.

*Reithrodontomys! longicaudus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 320. Ex Arizona. (nec Baird.)

*Reithrodontomys! arizonensis* Allen, Bull. Am. Mus. Nat. Hist.

N. Y., 1895, p. 134. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 153. Zoöl. Ser.

*Rhithrodontomys arizonensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 196. Zoöl. Ser.

ARIZONA HARVEST MOUSE.

1-2. Adult ♂ P. Chiricahua Mountains, Arizona. B. C. Condit.

3. Adult ♀ P. Chiricahua Mountains, Arizona. B. C. Condit.

436. *Rhithrodontomys saturatus* Allen & Chapman.

*Reithrodontomys! saturatus* Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 201.

*Rhithrodontomys saturatus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 262. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 196. Zoöl. Ser.

LAS VIGAS HARVEST MOUSE.

1-4. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

5-6. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

7. Adult ♂ Coll. Mount Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

437. *Rhithrodontomys peninsulæ* Elliot.

*Rhithrodontomys peninsulæ* Elliot, Pub. Field Columb. Mus., III, 1903, p. 164. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 263. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 197. Zoöl. Ser.

PENINSULAR HARVEST MOUSE.

1-9. Adult ♂ Paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.

10-15. Adult ♀ Type and paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.

438. *Rhithrodontomys difficilis* Merriam.

*Reithrodontomys! difficilis* Merr., Proc. Wash. Acad. Scien., III, 1901, p. 556.

*Rhithrodontomys difficilis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 263. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 197. Zoöl. Ser.

CAPTIOUS HARVEST MOUSE.

1-2. Adult ♀ Coll. San Carlos, State of Vera Cruz, Mexico. N. G. Buxton.

*a. Rhithrodontomys mexicanus fulvescens* Allen.

*Reithrodontomys! mexicanus fulvescens* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 319.

*Rhithrodontomys mexicanus fulvescens* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 264. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 198. Zoöl. Ser.

OPOSURA HARVEST MOUSE.

1-2. Adult ♂ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.

3. Adult ♀ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.

4. Adult ♀ Topotype. P. Oposura, State of Sonora, Mexico. B. C. Condit.

**439. *Rhithrodontomys laceyi* Allen.**

*Reithrodontomys! laceyi* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1896, p. 235. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 153. Zoöl. Ser.

*Rhithrodontomys laceyi* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 199. Zoöl. Ser.

LACEY'S HARVEST MOUSE.

1. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

**440. *Rhithrodontomys costaricensis* Allen.**

*Reithrodontomys! costaricensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 139.

*Rhithrodontomys costaricensis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 267. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 200. Zoöl. Ser.

COSTA RICA HARVEST MOUSE.

1. Adult ♀ Exch. San José, Costa Rica. Am. Mus. Nat. Hist. N. Y. A. Alfaro.

2-4. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

5-6. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.

**441. *Rhithrodontomys rufescens* Allen & Chapman.**

*Reithrodontomys! rufescens* Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 199.

*Rhithrodontomys rufescens* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 268. Zoöl. Ser. *Id.*



Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 201. Zoöl. Ser.

**RUFIOUS HARVEST MOUSE.**

1. Adult ♂ Paratype. Exch. Jalapa, State of Vera Cruz, Mexico. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

a. *Rhithrodontomys griseiflavus helvolus* Merriam.

*Reithrodontomys! griseoflavus helvolus* Merr., Proc. Wash. Acad. Scien., III, 1901, p. 554.

*Rhithrodontomys griseiflavus helvolus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 270. Zoöl. Ser.

*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 202. Zoöl. Ser.

**OAXACA HARVEST MOUSE.**

1. Adult ♂ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

**442. *Rhithrodontomys amœnus* Elliot.**

*Rhithrodontomys amœnus* Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 234.

**ATTRACTIVE HARVEST MOUSE.**

1. Adult ♀ Type. Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

**443. *Rhithrodontomys inexpectatus* Elliot.**

*Rhithrodontomys inexpectatus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 145. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 271. Zoöl. Ser.

*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 203. Zoöl. Ser.

**PATZCUARO HARVEST MOUSE.**

1. Adult ♂ Type. Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

**Genus 132. *Ichthyomys*.**

*Ichthyomys* Thomas, Proc. Zoöl. Soc., 1893, p. 337. Type *Ichthyomys stolzmanni* Thomas.

**444. *Ichthyomys hydrobates* (Winge).**

*Habrothrix hydrobates* Winge, Vid. Med. Kjobenh., 1891, p. 1, pl. 1.

**WINGE'S FISH-EATING RAT.**

1. Juv. — P. Venezuela. Deyrolle Fils.



Genus 133. **Acodon.**

**Akodon!** Meyen, Nova Acta Phys. Med. Acad. Cæs. Leop.-Carol.,  
xvi, 1833, p. 599, tab. XLIII, fig. 1. Type *Akodon! boliviense*  
Meyen.

*Abrothrix* (sic) Waterh., Proc. Zool. Soc., 1837, p. 21.

445. **Acodon teguina** (Alston).

*Hesperomys teguina* Alston, Proc. Zool. Soc., 1876, p. 755.

*Acodon teguina* Elliot, Mamm. Middle Amer. & W. Indies, F. C.

M. Pub., iv, Pt. 1, 1904, p. 273, figs. 44, XLII. Zool. Ser.

*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.

Pub., vi, 1905, p. 204. Zool. Ser.

## ALSTON'S MOUSE.

1. Adult — P. Costa Rica. E. Gerrard & Sons.

446. **Acodon urichi** Allen & Chapman.

*Abrothrix! caliginosus* Allen & Chapman, Bull. Am. Mus. Nat.

Hist. N. Y., 1893, p. 217. (nec Tomes.)

*Akodon! urichi* Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y.,

1897, p. 19.

## URICH'S MOUSE.

1. Adult ♀ Exch. Princetown, Island of Trinidad. Am. Mus.

Nat. Hist. N. Y. F. M. Chapman.

Genus 134. **Oxymycterus.**

**Oxymycterus** Waterh., Proc. Zool. Soc., 1837, p. 21. Type *Mus*  
*nasutus* Waterhouse.

447. **Oxymycterus nasutus** (Waterhouse).

*Mus nasutus* Waterh., Proc. Zool. Soc., 1837, p. 16.

## LONG-NOSED RAT.

1. Adult — P. Argentine Republic. Ward's Nat. Scien. Establ.,  
Rochester, N. Y.

Subfamily V. **Neotominæ. Wood Rats.**Genus 135. **Neotoma.**

**Neotoma** Say & Ord, Jour. Acad. Nat. Scien. Phil., iv, 1825, p. 345.

Type *Mus floridana* Ord.

**448. *Neotoma fuscipes* Baird.**

*Neotoma fuscipes* Baird, N. Am. Mamm., 1857, p. 495. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 158. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 278. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 206. Zoöl. Ser.

*Neotoma monochrourea!* Rhoads, Amer. Nat., XXVIII, 1894, p. 67.

*Neotoma splendens* True, Proc. U. S. Nat. Mus., 1894, p. 353.

**DUSKY-FOOTED WOOD RAT.**

- 1-26. Adult ♂ P. Portola, San Mateo County, California. W. W. Price.
- 27-51. Adult ♀ P. Portola, San Mateo County, California. W. W. Price.
- 52. Juv. ♂ P. Portola, San Mateo County, California. W. W. Price.
- 53-54. Juv. ♀ P. Portola, San Mateo County, California. W. W. Price.
- 55-60. Adult ♂ Coll. Nicasio, California. E. Heller.
- 61-63. Adult ♀ Coll. Nicasio, California. E. Heller.
- 64. Adult ♂ Coll. Mendocino, California. E. Heller.
- 65. Adult ♀ Coll. Mendocino, California. E. Heller.
- 66-68. Adult ♂ Coll. Point Reyes, California. E. Heller.
- 69. Adult ♀ Coll. Point Reyes, California. E. Heller.
- 70-73. Adult ♂ Topotypes. Coll. Petaluma, California. E. Heller.
- 74-77. Adult ♀ Topotypes. Coll. Petaluma, California. E. Heller.
- 78-80. Adult ♂ Pres. Palo Alto, California. E. Heller.
- 81. Juv. ♂ Pres. Palo Alto, California. E. Heller.
- 82-85. Adult ♀ Pres. Palo Alto, California. E. Heller.
- 86. Adult ♂ P. Stanford University, Palo Alto, California. W. W. Price.
- 87. Adult ♂ P. Cedro Place, California. G. A. Coleman.
- 88. Juv. ♂ P. Stevens Creek, California. G. A. Coleman.
- 89. Adult ♂ Coll. Requa, California. E. Heller.
- 90-92. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- 93-98. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
- 99-100. Adult ♂ Coll. Grant's Pass, Oregon. E. Heller.

**a. *Neotoma fuscipes macrotis* (Thomas).**

*Neotoma macrotis* Thomas, Ann. Mag. Nat. Hist., 6th Ser., XII, 1893, p. 234.

*Neotoma macrotis simplex* True, Proc. U. S. Nat. Mus., 1894, p. 354.

*Neotoma fuscipes macrotis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 159. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 279. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 206. Zoöl. Ser.

LARGE-EARED WOOD RAT.

- 1-14. Adult ♂ P. Carmel River, Monterey County, California. W. W. Price.
- 15-30. Adult ♀ P. Carmel River, Monterey County, California. W. W. Price.
- 31-35. Juv. ♂ P. Carmel River, Monterey County, California. W. W. Price.
- 36-39. Juv. ♀ P. Carmel River, Monterey County, California. W. W. Price.
- 40-41. Adult ♂ P. San Antonio, San Bernardino County, California. W. W. Price.
- 42. Adult ♀ P. San Antonio, San Bernardino County, California. W. W. Price.
- 43. Juv. ♀ P. San Antonio, San Bernardino County, California. W. W. Price.
- 44. Adult ♀ Coll. Whitewater, San Bernardino County, California. E. Heller.
- 45-46. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.
- 47. Adult ♀ Coll. Aguaje de las Fresas, Lower California, Mexico. E. Heller.
- 48. Adult ♀ Coll. San Antonio, Lower California, Mexico. E. Heller.
- 49. Adult ♂ Coll. La Grulla, Lower California, Mexico. E. Heller.
- 50. Adult ♂ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 51-52. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 53-55. Adult ♂ Coll. Rosarito Divide, Lower California, Mexico. E. Heller.
- 56-57. Adult ♀ Coll. Palomar, Lower California, Mexico. E. Heller.

b. *Neotoma fuscipes streatori* Merriam.

*Neotoma fuscipes streatori* Merr., Proc. Biol. Soc. Wash., IX, 1894,

- p. 124. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,  
 p. 159. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &  
 W. Indies, F. C. M. Pub., VI, 1905, p. 206. Zoöl. Ser.

## STREATOR'S WOOD RAT.

- 1-3. Adult ♂ P. Snow Mountains, Colusa County, California.  
 W. W. Price.  
 4-6. Adult ♀ P. Snow Mountains, Colusa County, California.  
 W. W. Price.  
 7-10. Juv. ♂ P. Snow Mountains, Colusa County, California.  
 W. W. Price.  
 11-13. Juv. ♀ P. Snow Mountains, Colusa County, California.  
 W. W. Price.

c. *Neotoma fuscipes dispar* Merriam.

- Neotoma fuscipes dispar* Merr., Proc. Biol. Soc. Wash., IX, 1894,  
 p. 124. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,  
 p. 160. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &  
 W. Indies, F. C. M. Pub., VI, 1905, p. 206. Zoöl. Ser.

## DISSIMILAR WOOD RAT.

- 1-3. Adult ♂ Coll. Lone Pine, Inyo County, California. E.  
 Heller.  
 4-11. Adult ♀ Coll. Lone Pine, Inyo County, California. E.  
 Heller.  
 12. Adult ♀ Coll. Hot Spring, Mt. Whitney, California. E.  
 Heller.

d. *Neotoma fuscipes annectens* Elliot.

- Neotoma fuscipes annectens* Elliot, Pub. Field Columb. Mus., I, 1898, p. 201. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 160. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 206. Zoöl. Ser.

## ALLIED WOOD RAT.

- 1-11. Adult ♂ Type and paratypes. P. Portola, San Mateo County, California. W. W. Price.  
 12-17. Adult ♀ Paratypes. P. Portola, San Mateo County, California. W. W. Price.

e. *Neotoma fuscipes affinis* Elliot.

- Neotoma fuscipes affinis* Elliot, Pub. Field Columb. Mus., I, 1898, p. 202. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 160. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 207. Zoöl. Ser.



## RELATED WOOD RAT.

- 1-10. Adult ♂ Type and paratypes. P. Alum Rock Park, Santa Clara County, California. W. W. Price.  
 11-24. Adult ♀ Paratypes. P. Alum Rock Park, Santa Clara County, California. W. W. Price.  
 25-28. Juv. ♀ Paratypes. P. Alum Rock Park, Santa Clara County, California. W. W. Price.  
 29. Juv. ♂ Paratype. P. Alum Rock Park, Santa Clara County, California. W. W. Price.  
 30-31. Adult ♂ P. Mt. Hamilton, Santa Clara County, California. W. W. Price.  
 32-35. Adult ♀ P. Mt. Hamilton, Santa Clara County, California. W. W. Price.

449. *Neotoma mohavensis* (Elliot).

*Neotoma fuscipes mohavensis* Elliot, Pub. Field Columb. Mus., III, 1903, p. 246. Zoöl. Ser.

*Neotoma mohavensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 207. Zoöl. Ser.

## MOHAVE DESERT WOOD RAT.

- 1-3. Adult ♂ Paratypes. Coll. Oro Grande, Mohave Desert, California. E. Heller.  
 4-7. Adult ♀ Type and paratypes. Coll. Oro Grande, Mohave Desert, California. E. Heller.

450. *Neotoma cnemophila* (Elliot).

*Neotoma fuscipes cnemophila* Elliot, Pub. Field Columb. Mus., III, 1904, p. 267. Zoöl. Ser.

*Neotoma cnemophila* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 207. Zoöl. Ser.

## MOUNT PINOS WOOD RAT.

- 1-3. Adult ♂ Type and paratypes. Coll. Mount Pinos, Lockwood Valley, California. E. Heller.  
 4-5. Adult ♀ Paratypes. Coll. Mount Pinos, Lockwood Valley, California. E. Heller.  
 6. Adult ♀ Coll. Bailey's Ranch, Piru Creek, California. E. Heller.  
 7-8. Adult ♂ Coll. Castac Lake, Piru Creek, California. E. Heller.

451. *Neotoma micropus* Baird.

*Neotoma micropus* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 333. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 155. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C.

M. Pub., IV, Pt. I, 1904, p. 281, figs. 45, XLIII. Zoöl. Ser.  
*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 208. Zoöl. Ser.



FIG. XXXIII.—*NEOTOMA MICROPUS*. SMALL-FOOTED WOOD RAT.

#### SMALL-FOOTED WOOD RAT.

1. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
2. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
3. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
- 4-5. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
6. Adult ♀ Exch. Corpus Christi, Texas. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.
7. Adult ♀ Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. F. Armstrong.
8. Adult ♂ Coll. Xaral, State of Coahuila, Mexico. Heller & Barber.

#### *a. Neotoma micropus surberi* Elliot.

*Neotoma micropus surberi* Elliot, Pub. Field Columb. Mus., I, 1899, p. 279. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 156. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 209. Zoöl. Ser.

#### SURBER'S WOOD RAT.

1. Adult ♂ Type. Coll. Cañon 3 miles west of Alva, Oklahoma Territory. T. Surber.

2. Adult ♀ Paratype. Coll. Cañon 3 miles west of Alva, Oklahoma Territory. T. Surber.
- 3-9. Adult ♂ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 10-16. Adult ♀ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 17-19. Juv. ♂ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 20-22. Juv. ♀ Coll. White Horse Spring, Oklahoma Territory. T. Surber.

#### 452. *Neotoma baileyi* Merriam.

*Neotoma baileyi* Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 123.  
 Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 210. Zoöl. Ser.

*Neotoma campestris baileyi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 156. Zoöl. Ser.

#### BAILEY'S WOOD RAT.

- 1-2. Adult ♂ Coll. Noble, Oklahoma Territory. T. Surber.
- 3-4. Adult ♀ Coll. Noble, Oklahoma Territory. T. Surber.
- 5-8. Adult ♂ Coll. Dougherty, Oklahoma Territory. T. Surber.
- 9-10. Adult ♀ Coll. Dougherty, Oklahoma Territory. T. Surber.

#### 453. *Neotoma floridana* (Ord).

*Mus floridana* Ord, Bull. Soc. Philom. Paris, 1818, p. 181.

*Arvicola floridana* Harl., Faun. Amer., 1825, p. 141.

*Neotoma floridana* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 157, fig. 34. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 209. Zoöl. Ser.

#### FLORIDA WOOD RAT.

1. Adult — Exch. Gainesville, Florida. Am. Mus. Nat. Hist. N. Y. J. Robertson.
2. Adult ♂ Exch. Enterprise, Florida. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 3-4. Adult ♂ Coll. Gainesville, Florida. T. Surber.
5. Adult ♀ Coll. Gainesville, Florida. T. Surber.
6. Juv. ♀ Coll. Enterprise, Florida. T. Surber.
7. Adult ♀ Coll. Enterprise, Florida. T. Surber.
- 8-10. Adult ♂ Coll. Riceboro, Georgia. T. Surber.
- 11-12. Adult ♀ Coll. Riceboro, Georgia. T. Surber.
13. Juv. ♂ Coll. Riceboro, Georgia. T. Surber.

#### a. *Neotoma floridana attwateri* (Mearns).

*Neotoma attwateri* Mearns, Proc. U. S. Nat. Mus., 1897, p. 721.

*Neotoma floridana attwateri* Elliot, Syn. N. Am. Mamm., F. C. M.

Pub., II, 1901, p. 157. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 210. Zoöl. Ser.

#### ATTWATER'S WOOD RAT.

- 1. Adult ♂ Topotype. Exch. Turtle Creek, Kerr County, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

#### 454. *Neotoma pennsylvanica* Stone.

*Neotoma pennsylvanica* Stone, Proc. Acad. Nat. Scien. Phil., 1893, p. 16. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 157. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 210. Zoöl. Ser.

#### PENNSYLVANIA WOOD RAT.

- 1. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
- 2. Adult ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
- 3. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
- 4-9. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.
- 10-12. Juv. ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.

#### 455. *Neotoma mexicana* Baird.

*Neotoma mexicana* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 333. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 158. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 282. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 213. Zoöl. Ser.

#### MEXICAN WOOD RAT.

- 1-5. Adult ♂ P. Huachuca Mountains, Arizona. W. W. Price.
- 6-7. Adult ♀ P. Huachuca Mountains, Arizona. W. W. Price.
- 8. Juv. ♂ P. Huachuca Mountains, Arizona. W. W. Price.
- 9. Juv. ♀ P. Huachuca Mountains, Arizona. W. W. Price.
- 10. Adult ♂ P. Show Low, Arizona. W. W. Price.
- 11. Adult ♀ P. Show Low, Arizona. W. W. Price.
- 12-13. Adult ♀ P. Fairbank, Arizona. W. W. Price.
- 14. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
- 15. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.
- 16-19. Adult ♂ P. Chiricahua Mountains, Arizona. W. W. Price.
- 20-24. Adult ♀ P. Chiricahua Mountains, Arizona. W. W. Price.



25-27. Adult ♂ P. White Mountains, Arizona. W. W. Price.

28-29. Adult ♀ P. White Mountains, Arizona. W. W. Price.

*a. Neotoma mexicana madrensis* Goldman.

*Neotoma mexicana madrensis* Goldm., Proc. Biol. Soc. Wash., XVIII, 1905, p. 31. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 213. Zoöl. Ser.

SIERRA MADRE WOOD RAT.

1-3. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

4-6. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

456. *Neotoma grandis* (Elliot).

*Neotoma desertorum grandis* Elliot, Pub. Field Columb. Mus., III, 1903, p. 247. Zoöl. Ser.

*Neotoma grandis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 215. Zoöl. Ser.

CAMERON LAKE WOOD RAT.

1-2. Adult ♂ Type and paratype. P. Cameron Lake, Colorado Desert, California. F. Stephens.

3. Adult ♂ P. Borego Springs, San Diego County, California. F. Stephens.

4. Adult ♂ P. Jamul Ranch, San Diego County, California. F. Stephens.

5. Juv. ♀ P. Witch Creek, Colorado Desert, California. F. Stephens.

457. *Neotoma desertorum* Merriam.

*Neotoma desertorum* Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 125. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 161. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 215. Zoöl. Ser.

DEATH VALLEY WOOD RAT.

1-3. Adult ♂ Coll. Lone Willow Springs, California. E. Heller.

4-5. Adult ♀ Coll. Lone Willow Springs, California. E. Heller.

6-7. Adult ♂ Coll. Copper City, California. E. Heller.

8. Adult ♀ Coll. Copper City, California. E. Heller.

9-10. Adult ♂ Coll. Coal Kilns, Panamint Mts., California. E. Heller.

11. Adult ♀ Coll. Coal Kilns, Panamint Mts., California. E. Heller.

- 12-16. Adult ♂ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
17. Adult ♀ Coll. Hannopee Cañon, Panamint Mts., California. E. Heller.
- 18-23. Adult ♂ Topotypes. Coll. Furnace Creek, Death Valley, California. E. Heller.
- 24-25. Adult ♀ Topotypes. Coll. Furnace Creek, Death Valley, California. E. Heller.
- 26-29. Adult ♂ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
30. Adult ♀ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
31. Adult ♂ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.
- 32-33. Adult ♀ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.
34. Adult ♂ Coll. Coso Mountains, California. E. Heller.
35. Adult ♀ Coll. Coso Mountains, California. E. Heller.
36. Adult ♂ Coll. Mesquite Valley, California. E. Heller.
37. Adult ♂ Coll. Lone Pine, Owens Valley, California. E. Heller.
- 38-39. Adult ♀ Coll. Lone Pine, Owens Valley, California. E. Heller.
- 40-41. Juv. ♂ P. Candelaria, Nevada. J. Rowley.
42. Adult ♀ P. Candelaria, Nevada. J. Rowley.

*a. Neotoma desertorum sola* Merriam.

*Neotoma desertorum sola* Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 126. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 161. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 215. Zool. Ser.

LONELY WOOD RAT.

- 1-5. Adult ♂ Coll. Fort Tejon, California. E. Heller.
- 6-17. Adult ♀ Coll. Fort Tejon, California. E. Heller.

458. *Neotoma fallax* Merriam.

*Neotoma fallax* Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 123. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 161. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 216. Zool. Ser.

DECEITFUL WOOD RAT.

- 1-3. Adult ♂ P. Boulder Creek, Colorado. R. T. Young.
- 4-6. Adult ♀ P. Boulder, Colorado. R. T. Young.
7. Juv. ♀ P. Boulder, Colorado. R. T. Young.

**459. *Neotoma intermedia* Rhoads.**

*Neotoma intermedia* Rhoads, Amer. Nat., xxviii, 1894, p. 69.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 161.  
 Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.  
 Pub., IV, Pt. I, 1904, p. 284. Zool. Ser. *Id.* Check-L. Mamm.  
 N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 216.  
 Zool. Ser.

*Neotoma californica* Price, Proc. Calif. Acad. Scien., 1894, p.  
 154, pl. XI.

**RHOADS'S WOOD RAT.**

- 1-7. Adult ♂ P. Riverside, California. E. Heller.
- 8-10. Adult ♀ P. Riverside, California. E. Heller.
- 11-12. Adult ♂ P. Anderson's Ranch, Douglas County, Nevada.  
 W. W. Price.
13. Adult ♀ P. Anderson's Ranch, Douglas County, Nevada.  
 W. W. Price.
- 14-16. Adult ♂ P. San Antonio, San Bernardino County, Cali-  
 fornia. W. W. Price.
- 17-18. Adult ♀ P. San Antonio, San Bernardino County, Cali-  
 fornia. W. W. Price.
19. Adult ♀ P. Jamul, San Diego County, California. W. W.  
 Price.
20. Adult ♂ Exch. Sanos Cedros, Lower California, Mexico.  
 Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
21. Adult ♀ Exch. Sanos Cedros, Lower California, Mexico  
 Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
22. Adult ♂ Coll. Hanson Lagoon, Lower California, Mexico.  
 E. Heller.
- 23-24. Adult ♀ Coll. Hanson Lagoon, Lower California, Mexico.  
 E. Heller.
25. Adult ♂ Coll. San Matias Spring, Lower California, Mexico.  
 E. Heller.
26. Adult ♀ Coll. San Matias Spring, Lower California, Mexico.  
 E. Heller.
- 27-28. Adult ♂ Coll. Head of San Antonio River, Lower Cali-  
 fornia, Mexico. E. Heller.
- 29-30. Adult ♀ Coll. Head of San Antonio River, Lower Cali-  
 fornia, Mexico. E. Heller.
31. Adult ♂ Coll. San Antonio, Lower California, Mexico.  
 E. Heller.
- 32-34. Adult ♀ Coll. San Antonio, Lower California, Mexico.  
 E. Heller.

35. Adult ♂ Coll. Aqua Escondido, Lower California, Mexico. E. Heller.
36. Adult ♀ Coll. Aqua Escondido, Lower California, Mexico. E. Heller.
37. Adult ♂ Coll. Rosarito, Lower California, Mexico. E. Heller.
- 38-39. Adult ♀ Coll. Rosarito, Lower California, Mexico. E. Heller.
40. Adult ♂ Coll. Rosarito Divide, Lower California, Mexico. E. Heller.
- 41-42. Adult ♂ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 43-49. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 50-52. Adult ♂ Coll. Vallecitos, Lower California, Mexico. E. Heller.
- 53-57. Adult ♀ Coll. Vallecitos, Lower California, Mexico. E. Heller.
58. Adult ♂ Coll. La Grulla, Lower California, Mexico. E. Heller.
59. Adult ♀ Coll. La Grulla, Lower California, Mexico. E. Heller.
- 60-62. Adult ♂ Coll. Parral, Lower California, Mexico. E. Heller.
- 63-66. Adult ♀ Coll. Parral, Lower California, Mexico. E. Heller.
67. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 68-70. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.
71. Adult ♂ Coll. El Alamo, Lower California, Mexico. E. Heller.
- 72-73. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.
74. Adult ♀ Coll. Ensenada, Lower California, Mexico. E. Heller.
75. Adult ♂ Coll. Santa Rosa, Lower California, Mexico. E. Heller.

*a. Neotoma intermedia gilva* Rhoads.

*Neotoma intermedia gilva* Rhoads, Amer. Nat., xxviii, 1894, p.

70. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p.

162. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.

Indies, F. C. M. Pub., VI, 1905, p. 217. Zool. Ser.

*Neotoma venusta* True, Proc. U. S. Nat. Mus., 1894, p. 354.



## YELLOW WOOD RAT.

1. Adult ♂ Exch. Jacumba, San Diego County, California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
2. Adult ♀ Exch. Jacumba, San Diego County, California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
3. Juv. ♀ Exch. Palmetto Springs, San Diego County, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.
- 4-7. Adult ♂ Coll. Whitewater, San Diego County, California. E. Heller.
- 8-13. Adult ♀ Coll. Whitewater, San Diego County, California. E. Heller.

b. *Neotoma intermedia albigula* (Hartley).

*Neotoma albigula* Hartley, Proc. Calif. Acad. Scien., 2nd Ser., IV, 1894, p. 157, pl. XII.

*Neotoma intermedia albigula* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 162. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 285. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 217. Zoöl. Ser.

## WHITE-THROATED WOOD RAT.

1. Adult ♂ Exch. Bradshaw City, Arizona. Am. Mus. Nat. Hist. N. Y. Price & Condit.
2. Adult ♀ Exch. Bradshaw City, Arizona. Am. Mus. Nat. Hist. N. Y. H. H. Kaey.
- 3-4. Adult ♂ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
- 5-7. Adult ♀ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
8. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.
9. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

460. *Neotoma campestris* Allen.

*Neotoma campestris* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 322. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 156. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 218. Zoöl. Ser.

## FIELD WOOD RAT.

1. Adult ♀ Paratype. Exch. Pendennis, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
2. Juv. ♂ Paratype. Exch. Pendennis, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

**461. *Neotoma bella* Bangs.**

*Neotoma bella* Bangs, Proc. N. Eng. Zoöl. Club, 1, 1899, p. 66.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, Append.,  
 p. 429. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &  
 W. Indies, F. C. M. Pub., VI, 1905, p. 218. Zoöl. Ser.

**BEAUTIFUL WOOD RAT.**

- 1-5. Adult ♂ Coll. Morongo Pass, California. E. Heller.
- 6. Adult ♀ Coll. Morongo Pass, California. E. Heller.
- 7-8. Adult ♀ Coll. Whitewater, California. E. Heller.
- 9-12. Adult ♂ Topotypes. Coll. Palm Springs, California. E. Heller.
- 13-19. Adult ♀ Topotypes. Coll. Palm Springs, California. E. Heller.
- 20. Adult ♂ Coll. Burn's Cañon, California. E. Heller.
- 21. Adult ♀ Coll. Old Woman's Spring, California. E. Heller.
- 22. Adult ♂ Coll. Warren's Well, California. E. Heller.
- 23. Adult ♂ Coll. Oro Grande, California. E. Heller.
- 24-25. Adult ♀ Coll. Oro Grande, California. E. Heller.

**a. *Neotoma bella felipensis* Elliot.**

*Neotoma bella felipensis* Elliot, Pub. Field Columb. Mus., 111,  
 1903, p. 217. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. In-  
 dies, F. C. M. Pub., IV, Pt. 1, 1904, p. 286. Zoöl. Ser. *Id.*  
 Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.  
 Pub., VI, 1905, p. 218. Zoöl. Ser.

**SAN FELIPE DESERT RAT.**

- 1-8. Adult ♂ Type and paratypes. Coll. San Felipe, Lower California, Mexico. E. Heller.
- 9-15. Adult ♀ Paratypes. Coll. San Felipe, Lower California, Mexico. E. Heller.
- 16. Adult ♂ Coll. Cañon Viento, Lower California, Mexico. E. Heller.
- 17. Adult ♂ Coll. Parral, Lower California, Mexico. E. Heller.
- 18-21. Adult ♀ Coll. Palomar, Lower California, Mexico. E. Heller.

**462. *Neotoma orizabæ* Merriam.**

*Neotoma orizabæ* Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 122.  
 Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV,  
 Pt. 1, 1904, p. 286. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 219. Zoöl. Ser.

## ORIZABA WOOD RAT.

- 1-2. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
- 3-4. Adult ♀ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
- 5-6. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

463. *Neotoma goldmani* Merriam.

*Neotoma goldmani* Merr., Proc. Biol. Soc. Wash., xvi, 1903, p. 48.  
 Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv,  
 Pt. 1, 1904, p. 288. Zoöl. Ser. *Id.* Check-L. Mamm. N.  
 Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 220.  
 Zoöl. Ser.

## GOLDMAN'S WOOD RAT.

1. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
2. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 3-4. Juv. ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

Genus 136. *Teonoma*. Bushy-tailed Wood Rats.

*Teonoma* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 117. Type  
*Myoxus drummondi* Richardson.

464. *Teonoma cinerea* (Ord).

*Mus cinerea* Ord, Guth. Geogr., 2nd Am. ed., ii, 1815, p. 292.  
*Neotoma cinerea* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii,  
 1901, p. 163, fig. 35. Zoöl. Ser.  
*Teonoma cinerea* Elliot, Check-L. Mamm. N. Am. Cont. & W.  
 Indies, F. C. M. Pub., vi, 1905, p. 220. Zoöl. Ser.

## GRAY BUSHY-TAILED WOOD RAT.

- 1-7. Adult ♂ P. Woodfords, Alpine County, California. W. W. Price.
- 8-12. Adult ♀ P. Woodfords, Alpine County, California. W. W. Price.
13. Juv. ♂ P. Woodfords, Alpine County, California. W. W. Price.
- 14-17. Juv. ♀ P. Woodfords, Alpine County, California. W. W. Price.

18. Adult ♂ P. Canadian National Park, Alberta, Canada. G. F. Dippie.
19. Juv. ♂ P. Canadian National Park, Alberta, Canada. G. F. Dippie.
20. Adult — P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.
21. Juv. ♂ P. Jackson Lake, Wyoming. T. R. Wilson.

a. *Teonoma cinerea drummondi* (Richardson).

*Myoxus drummondi* Rich., Zool. Jour., III, 1828, p. 517.

*Neotoma cinerea drummondi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 164. Zool. Ser.

*Teonoma cinerea drummondi* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, VI, 1905, p. 221. Zool. Ser.

DRUMMOND'S BUSHY-TAILED WOOD RAT.

1. Adult ♂ P. Willow River, Cariboo, British Columbia, Canada. C. K. Worthern.
2. Adult ♂ P. Carpenter's Mountain, Cariboo, British Columbia, Canada. C. K. Worthern.
3. Adult ♀ P. Carpenter's Mountain, Cariboo, British Columbia, Canada. C. K. Worthern.

b. *Teonoma cinerea occidentalis* (Baird).

*Neotoma occidentalis* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 335.

*Neotoma cinerea occidentalis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 164. Zool. Ser.

*Teonoma cinerea occidentalis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 221. Zool. Ser.

WESTERN BUSHY-TAILED WOOD RAT.

- 1-4. Adult ♂ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
- 5-6. Adult ♀ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
- 7-12. Juv. ♂ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
- 13-14. Juv. ♀ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
- 15-18. Adult ♂ Coll. Boulder Creek, Clallam County, Washington. D. G. Elliot.
19. Adult ♀ Coll. Boulder Creek, Clallam County, Washington. D. G. Elliot.
- 20-21. Juv. ♀ Coll. Boulder Creek, Clallam County, Washington. D. G. Elliot.



22. Juv. ♂ Coll. Johnson's Ranch, Clallam County, Washington. D. G. Elliot.
23. Adult ♂ Coll. Campbell's Ranch, Clallam County, Washington. D. G. Elliot.
- 24-25. Adult ♂ Coll. Requa, California. E. Heller.
26. Adult ♂ P. Chilliwack, British Columbia, Canada. A. C. Brookes.
27. Adult ♂ P. Columbia Falls, Montana. A. C. Brookes.

*c. Teonoma cinerea columbiana* (Elliot).

*Neotoma cinerea columbiana* Elliot, Pub. Field Columb. Mus., I, 1899, p. 255. (Footnote.) Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 165. Zoöl. Ser.

*Teonoma cinerea columbiana* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 221. Zoöl. Ser.

BRITISH COLUMBIA BUSHY-TAILED WOOD RAT.

1. Adult—Type. Exch. Ducks, British Columbia, Canada. Am. Mus. Nat. Hist. N. Y. C. P. Streater.
2. Adult ♂ P. Midway, Kettle River, British Columbia, Canada. G. F. Dippie.

465. *Teonoma acraea* (Elliot).

*Teonoma cinerea acraea* Elliot, Pub. Field Columb. Mus., III, 1903, p. 247. Zoöl. Ser.

*Teonoma acraea* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 221. Zoöl. Ser.

MOUNTAIN BUSHY-TAILED WOOD RAT.

- 1-2. Adult ♀ Type and paratype. Coll. Hot Springs, Mt. Whitney, California. E. Heller.
3. Juv. ♂ Paratype. Coll. Hot Springs, Mt. Whitney, California. E. Heller.
- 4-6. Adult ♀ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.
- 7-8. Adult ♀ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.

466. *Teonoma fusca* (True).

*Neotoma occidentalis fusca* True, Proc. U. S. Nat. Mus., 1894, p. 354.

*Neotoma cinerea fusca* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 165. Zoöl. Ser.

*Teonoma fusca* Elliot, Pub. Field Columb. Mus., III, 1903, p. 187. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 222. Zoöl. Ser.

**FUSCOUS BUSHY-TAILED WOOD RAT.**

- 1-7. Adult ♂ Coll. Florence, Oregon. E. Heller.  
 8-9. Adult ♀ Coll. Florence, Oregon. E. Heller.

*a. Teonoma fusca apicalis* (Elliot).

*Neotoma fusca apicalis* Elliot, Pub. Field Columb. Mus., III, 1903,  
 p. 160. Zoöl. Ser.

*Teonoma fusca apicalis* Elliot, Check-L. Mamm. N. Amer. Cont.  
 & W. Indies, F. C. M. Pub., VI, 1905, p. 222. Zoöl. Ser.

**WHITE-TIPPED BUSHY-TAILED WOOD RAT.**

- 1-5. Adult ♂ Type and paratypes. Coll. Gardiner, Coos County,  
 Oregon. E. Heller.  
 6-8. Adult ♀ Paratypes. Coll. Gardiner, Coos County, Oregon.  
 E. Heller.

**467. *Teonoma grangeri* (Allen).**

*Neotoma grangeri* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894,  
 p. 324. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,  
 p. 165. Zoöl. Ser.

*Teonoma grangeri* Elliot, Check-L. Mamm. N. Amer. Cont. & W.  
 Indies, F. C. M. Pub., VI, 1905, p. 223. Zoöl. Ser.

**GRANGER'S BUSHY-TAILED WOOD RAT.**

1. Adult ♂ Exch. Hill City, South Dakota. Am. Mus. Nat.  
 Hist. N. Y. W. W. Granger.  
 2. Juv. ♀ Exch. Hill City, South Dakota. Am. Mus. Nat. Hist.  
 N. Y. W. W. Granger.

**468. *Teonoma oreolestes* (Merriam).**

*Neotoma oreolestes* Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 128.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 166.  
 Zoöl. Ser.

*Teonoma oreolestes* Elliot, Check-L. Mamm. N. Amer. Cont. & W.  
 Indies, F. C. M. Pub., VI, 1905, p. 223. Zoöl. Ser.

**COLORADO BUSHY-TAILED WOOD RAT.**

- 1-3. Adult ♂ P. Boulder, Colorado. R. T. Young.  
 4-7. Adult ♀ P. Boulder, Colorado. R. T. Young.  
 8. Adult ♀ P. Nederland, Colorado. R. T. Young.

**469. *Teonoma rupicola* (Allen).**

*Neotoma rupicola* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894,  
 p. 323. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,  
 p. 166. Zoöl. Ser.

*Teonoma rupicola* Elliot, Check-L. Mamm. N. Amer. Cont. & W.  
 Indies, F. C. M. Pub., VI, 1905, p. 223. Zoöl. Ser.

## ROCK-DWELLING BUSHY-TAILED WOOD RAT.

- 1-2. Adult ♂ Exch. Corral Draw, Pine Ridge, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
3. Juv. ♀ Exch. Corral Draw, Pine Ridge, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
4. Adult ♂ Exch. Spring Creek, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
5. Adult ♀ Exch. Cheyenne River, Custer County, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

470. *Teonoma cinnamomea* (Allen).

*Neotoma cinnamomea* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 331. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 166. Zoöl. Ser.

*Teonoma cinnamomea* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 223. Zoöl. Ser.

## CINNAMON BUSHY-TAILED WOOD RAT.

- 1-3. Adult ♂ Paratypes. Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
4. Adult ♀ Paratype. Exch. Bitter Creek, Wyoming. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

Genus 137. *Hodomys*.

*Hodomys* Merr., Proc. Acad. Nat. Scien. Phil., 1894, p. 232. Type *Neotoma alleni* Merriam.

471. *Hodomys alleni* (Merriam).

*Neotoma alleni* Merr., Proc. Biol. Soc. Wash., VII, 1892, p. 168.

*Hodomys alleni* Elliot, Mamm. Middle Amer. & W. Indies, F. C.

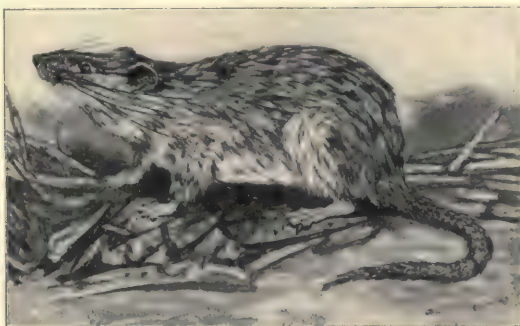


FIG. XXXIV. *HODOMYS ALLENI*. ALLEN'S WOOD RAT.



M. Pub., IV, Pt. 1, 1904, p. 297, figs. 50, XLIV. Zoöl. Ser. *Id.*  
 Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,  
 VI, 1905, p. 226. Zoöl. Ser.

ALLEN'S WOOD RAT.

1. Adult ♀ Exch. Valle de Banderas, Territorio de Tepic, Mexico. Am. Mus. Nat. Hist. N. Y. A. C. Buller.

Subfamily VI. **Microtinæ.**

Genus 138. **Phenacomys. Voles.**

**Phenacomys** Merr., N. Am. Faun., No. 2, 1889, p. 28. Type *Phenacomys intermedius* Merriam.

472. **Phenacomys oreophilus** Merriam.

*Phenacomys orophilus!* Merr., N. Am. Faun., No. 5, 1891, p. 65.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 168,  
 fig. 36. Zoöl. Ser.

*Phenacomys oreophilus* Elliot, Check-L. Mamm. N. Amer. Cont.  
 & W. Indies, F. C. M. Pub., VI, 1905, p. 226. Zoöl. Ser.

MOUNTAIN VOLE.

1. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.
2. Adult ♀ P. Pyramid Peak, Eldorado County, California.  
 W. W. Price.

473. **Phenacomys olympicus** Elliot.

*Phenacomys olympicus* Elliot, Pub. Field Columb. Mus., I, 1899,  
 p. 225. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub.,  
 II, 1901, p. 168. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 227. Zoöl. Ser.  
*Microtus pumilus* Elliot, Pub. Field Columb. Mus., I, 1899, p. 226.  
 Zoöl. Ser. Juv.

OLYMPIC MOUNTAINS VOLE.

- 1-4. Adult ♂ Type and paratypes. Coll. Happy Lake, Clallam  
 County, Washington. D. G. Elliot.
5. Adult ♀ Paratype. Coll. Happy Lake, Clallam County,  
 Washington. D. G. Elliot.
6. Adult ♀ Coll. Boulder Lake, Clallam County, Washington.  
 D. G. Elliot.
7. Juv. ♂ Topotype. Coll. Happy Lake, Clallam County,  
 Washington. Type of *M. pumilus*. D. G. Elliot.
- 8-9. Juv. ♀ Topotypes. Coll. Happy Lake, Clallam County,  
 Washington. D. G. Elliot.



Genus 139. **Evotomys. Red-backed Voles.**

**Evotomys** Coues, Proc. Acad. Nat. Scien. Phil., 1874, p. 186. Type  
*Mus rutilus* Pallas.

**474. Evotomys dawsoni** Merriam.

*Evotomys dawsoni* Merr., Amer. Nat., xxii, 1888, p. 650. Elliot,  
Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 172. Zoöl.  
Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C.  
M. Pub., VI, 1905, p. 229. Zoöl. Ser.

## DAWSON'S RED-BACKED VOLE.

1. Juv. ♂ P. Cariboo, British Columbia, Canada. C. K. Worthern.

**475. Evotomys gapperi** (Vigors).

*Arvicola gapperi* Vigors, Zoöl. Jour., v, 1830, p. 204, pl. ix.  
*Evotomys fuscodorsalis* Allen, Bull. Am. Mus. Nat. Hist. N. Y.,  
1894, p. 103.

*Evotomys gapperi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,  
1901, p. 172, fig. 37. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 230. Zoöl. Ser.

## GAPPER'S RED-BACKED VOLE.

1. Adult ♂ Exch. South Twin Lake, Maine. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 2-4. Adult ♀ Exch. South Twin Lake, Maine. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 5-6. Adult ♀ Exch. Forks of Tobique River, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
7. Adult — Exch. Andover, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 8-12. Adult ♂ Exch. Trousers Lake, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
13. Adult ♀ Exch. Trousers Lake, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 14-17. Adult ♂ Coll. Dalhousie, New Brunswick. T. Surber.
- 18-19. Juv. ♂ Coll. Dalhousie, New Brunswick. T. Surber.
20. Adult ♀ Coll. Dalhousie, New Brunswick. T. Surber.
21. Juv. ♀ Coll. Dalhousie, New Brunswick. T. Surber.
22. Adult ♂ Coll. Restigouche River, New Brunswick. T. Surber.
23. Adult ♀ Coll. Restigouche River, New Brunswick. T. Surber.
- 24-25. Adult ♂ Coll. Metapedia, Province of Quebec, Canada. T. Surber.

- 26-28. Adult ♂ Coll. Salmon Lake, Province of Quebec, Canada.  
T. Surber.
- 29-35. Adult ♂ Coll. Lake Edward, Province of Quebec, Canada.  
T. Surber.
- 36-39. Adult ♀ Coll. Lake Edward, Province of Quebec, Canada.  
T. Surber.
- 40-41. Adult ♂ P. Red Deer River, Alberta, Canada. G. F.  
Dippie.

*a. Evotomys gapperi ochraceus* Miller.

*Evotomys gapperi ochraceus* Miller, Proc. Bost. Soc. Nat. Hist.,  
xxvi, 1894, p. 193. Elliot, Syn. N. Am. Mamm., F. C. M.  
Pub., II, 1901, p. 172. Zoöl. Ser. *Id.* Check-L. Mamm. N.  
Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 230.  
Zoöl. Ser.

OCHRACEOUS RED-BACKED VOLE.

- 1-2. Adult ♂ P. Kensington, Prince Edward Island, Canada.  
R. T. Young.
3. Adult ♀ P. Alberton, Prince Edward Island, Canada.  
R. T. Young.
4. Adult ♂ P. Alberton, Prince Edward Island, Canada.  
R. T. Young.

*b. Evotomys gapperi galii* (Merriam).

*Evotomys galei* Merr., N. Am. Faun., No. 4, 1890, p. 23, pl. II,  
fig. 3.

*Evotomys gapperi galei* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
II, 1901, p. 173. Zoöl. Ser.

*Evotomys gapperi galii* Elliot, Check-L. Mamm. N. Amer. Cont. &  
W. Indies, F. C. M. Pub., VI, 1905, p. 231. Zoöl. Ser.

GALE'S RED-BACKED VOLE.

1. Adult ♂ P. Nederland, Colorado. R. T. Young.
- 2-3. Adult ♀ P. Nederland, Colorado. R. T. Young.

*c. Evotomys gapperi saturatus* Rhoads.

*Evotomys gapperi saturatus* Rhoads, Proc. Acad. Nat. Scien. Phil.,  
1894, p. 284. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,  
1901, p. 174. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont.  
& W. Indies, F. C. M. Pub., VI, 1905, p. 231. Zoöl. Ser.

RICH-COLORED RED-BACKED VOLE.

1. Adult ♂ P. Mount Baker Range, British Columbia, Canada.  
C. K. Worthern.
2. Adult ♀ P. Mount Baker Range, British Columbia, Canada.  
C. K. Worthern.

**476. *Evotomys breviceaudus* (Merriam).**

*Evotomys gapperi breviceaudus* Merriam, N. Am. Faun., No. 5, 1891, p. 119, pl. III, figs. 7, 8.

*Evotomys breviceaudus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 174. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 231. Zoöl. Ser.

**SHORT-TAILED RED-BACKED VOLE.**

1. Adult ♂ P. Park Siding, Michigan. C. Brandler.
2. Adult ♀ P. Park Siding, Michigan. C. Brandler.
- 3-5. Adult ♂ Topotypes. Exch. Custer, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

**477. *Evotomys carolinensis* Merriam.**

*Evotomys carolinensis* Merr., Am. Jour. Scien., 3d Ser., xxxvi, 1888, p. 460. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 174. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 231. Zoöl. Ser.

**CAROLINA RED-BACKED VOLE.**

- 1-7. Adult ♂ Coll. Black Mountain, West Virginia. T. Surber.
- 8-12. Adult ♀ Coll. Black Mountain, West Virginia. T. Surber.
13. Juv. ♂ Coll. Black Mountain, West Virginia. T. Surber.
14. Adult ♀ Coll. Job's Knob Mountain, West Virginia. T. Surber.

**478. *Evotomys obscurus* Merriam.**

*Evotomys obscurus* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 72. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 176. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 232. Zoöl. Ser.

**DUSKY RED-BACKED VOLE.**

1. Adult ♂ Coll. Grant's Pass, Oregon. E. Heller.

**479. *Evotomys nivarius* Bailey.**

*Evotomys nivarius* Bailey, Proc. Biol. Soc. Wash., XI, 1897, p. 136. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 177. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 233. Zoöl. Ser.

**SNOW-LOVING RED-BACKED VOLE.**

- 1-8. Adult ♂ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
- 9-18. Adult ♀ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
19. Adult ♂ Coll. Boulder Lake, Clallam County, Washington. D. G. Elliot.

20-22. Adult ♀ Coll. Boulder Lake, Clallam County, Washington. D. G. Elliot.

Genus 140. **Microtus. Meadow Voles.**

**Microtus** Schrank, Fauna Boica, I, 1ste Abth., 1798, pp. 66, 72.

Type *Mus arvalis* Pallas.

*Arvicola* Lacép., Tab. Div. Sous-div. Ord. et Gen. Mamm., 1799, p. 10.

*Mynomes* Rafin., Am. Month. Mag., II, 1817, p. 45.

*Psammomys* Le Conte, Ann. N. Y. Lyc. Nat. Hist., 1830, p. 132.  
(nec Cretzschmar.)

*Pitymys* McMurt., Cuv. Anim. Kingd., Am. ed., I, Append., 1831, p. 434. (Footnote.)

*Ammomys* Bon., Sagg. Dist. Met. degli. Anim. Vert., 1831, p. 20. (Footnote.)

*Pinemys* Less., Hist. Nat. Mamm. et Ois. découv. depuis 1788, Ouyres de Buffon, v, 1836, p. 436.

*Hemiotomys* Sélys Longchamps, Essai Mon. Campan. Envir. Liège, 1836, p. 7, pl. I.

*Lagurus* Glog., Hand-u. Hilfsb. Naturg., 1841, p. 97.

*Neodon* Hodgs., Ann. Mag. Nat. Hist., 2d Ser., III, 1849, p. 203.

*Paludicola* Blas., Naturgesch. Säugeth. Deutsch., 1857, pp. 333-334, 343-368, figs. 183-201.

*Agricola* Blas., Naturgesch. Säugeth. Deutsch., 1857, pp. 334-335, figs. 202-206.

*Chilotus* Baird, N. Am. Mamm., 1857, p. 516.

*Pedomys* Baird, N. Am. Mamm., 1857, p. 517.

*Praticola* Fatio, Les Campagn. Bass. Léman, Ass. Zool. Léman, 1867, pp. 36, 63, 75, pl. I, figs. 5-17, pls. III-V. (Part.)

*Sylvicola* Fatio, Les Campagn. Bass. Léman, Ass. Zool. Léman, 1867, pp. 63-72, pl. I, figs. 18-25, pl. VI.

*Terricola* Fatio, Les Campagn. Bass. Léman, Ass. Zool. Léman, 1867, pp. 73, 75.

*Ochetomys* Fitzin., Sitzungsab. K. Akad. Wiss. Wien., LVI, 1867, pp. 103-105.

*Micrurus* Forsyth-Major, Att. dell. Soc. Tosc. Scien. Nat. Pisa, III, 1877, p. 126.

*Eremiomys* Polyakoff, Mém. Acad. Imp. Scien. St. Pétersb., xxxix, Suppl., 1881, pp. 35, 38, figs. 1-2.

*Neofiber* True, Science, IV, 1884, p. 34.



- Campicola* Schulze, Schrift. Natur. Ver. Harz. Wernig., v, 1890, pp. 24-25.  
*Tetramerodon* Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p. 282.  
*Aulacomys* Rhoads, Amer. Nat., xxviii, 1894, p. 182, figs. 1-5.  
*Orthiomys* Merr., Proc. Biol. Soc. Wash., xii, 1898, p. 106.  
*Herpetomys* Merr., Proc. Biol. Soc. Wash., xii, 1898, p. 107.

Subgenus A. *Microtus*.480. *Microtus pennsylvanicus* (Ord).

- Mus pennsylvanica* Ord, Guth. Geog., 2d Am. ed., ii., 1815, p. 292.  
*Mynomes pratensis* Rafin., Amer. Month. Mag., ii, 1817, p. 45.  
*Lemmus noveboracensis* Rafin., Ann. Nat., 1820, p. 3.  
*Arvicola palustris* Harl., Faun. Amer., 1825, pp. 136-138.  
*Arvicola riparius* Ord, Jour. Acad. Nat. Scien. Phil., iv, Pt. ii, 1825, pp. 305-306.  
*Arvicola hirsutus* Emmons, Rept. Quad. Mass., 1840, p. 60.  
*Arvicola alborufescens* Emmons, Rept. Quad. Mass., 1840, pp. 60-61.  
*Arvicola fulva* Aud. & Bachm., Proc. Acad. Nat. Scien. Phil., 1841, p. 96.  
*Arvicola nasuta* Aud. & Bachm., Proc. Acad. Nat. Scien. Phil., 1841, pp. 96-97.  
*Arvicola rufescens* De Kay, Nat. Hist. N. Y., Zoöl., i, 1842, p. 85.  
*Arvicola oneida* De Kay, Nat. Hist. N. Y., Zoöl., i, 1842, pp. 88-89.  
*Arvicola dekayi* Aud. & Bachm., Quad. N. Amer., iii, 1854, pp. 287-288.  
*Arvicola riparia* var. *longipilis* Baird, N. Am. Mamm., 1857, p. 524.  
*Arvicola rufidorsum* Baird, N. Am. Mamm., 1857, p. 526.  
*Microtus pennsylvanicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 179, fig. 38. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 234. Zoöl. Ser.

## PENNSYLVANIA MEADOW VOLE.

1. Adult ♂ Exch. Pico, Vermont. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
2. Juv. ♂ Exch. Pico, Vermont. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
3. Adult ♂ Exch. Hartland, Vermont. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 4-6. Adult ♂ Exch. Nyack, New York. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.

7. Adult ♀ Exch. Nyack, New York. Am. Mus. Nat. Hist. N. Y. C. L. Brownell.
- 8-9. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 10-11. Adult ♀ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 12-13. Adult ♀ Exch. Suffolk County, New York. Am. Mus. Nat. Hist. N. Y. A. H. Helme.
14. Adult ♂ Exch. Highland, New York. Am. Mus. Nat. Hist. N. Y. A. H. Helme.
15. Adult ♂ Exch. Granton, Hackensack Meadows, New Jersey. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
16. Adult ♀ Exch. Nordhoff, New Jersey. Am. Mus. Nat. Hist. N. Y.
- 17-21. Adult ♂ Pres. White Sulphur Springs, West Virginia. T. Surber.
- 22-27. Adult ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
28. Juv. ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
- 29-32. Adult ♀ Pres. Jackson Park, Chicago, Illinois. L. Kenkel.
- 33-35. Adult ♂ Pres. Jackson Park, Chicago, Illinois. F. E. Lutz.
36. Adult ♀ Pres. Jackson Park, Chicago, Illinois. F. E. Lutz.
- 37-38. Adult ♂ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
- 39-40. Adult ♂ Exch. Perch, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
41. Adult ♀ Exch. Perch, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 42-43. Adult ♂ P. Knoxville, Iowa. G. K. Cherrie.
44. Adult ♂ Exch. Forks of the Tobique River, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 45-49. Adult ♀ Exch. Forks of the Tobique River, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 50-54. Adult ♂ Coll. Dalhousie, New Brunswick, Canada. T. Surber.
- 55-57. Adult ♀ Coll. Dalhousie, New Brunswick, Canada. T. Surber.
58. Adult ♂ Coll. Restigouche River, New Brunswick, Canada. T. Surber.

59. Adult ♀ Coll. Restigouche River, New Brunswick, Canada. T. Surber.  
 60-62. Adult ♂ Coll. Murray Bay, Province of Quebec, Canada. T. Surber.  
 63. Adult ♀ Coll. Murray Bay, Province of Quebec, Canada. T. Surber.  
 64. Adult ♂ P. Lake Edward, Prince Edward Island, Canada. R. T. Young  
 65. Adult ♂ Pres. Beaver Dam, Wisconsin. W. E. Snyder.

*a. Microtus pennsylvanicus acadicus* Bangs.

*Microtus pennsylvanicus acadicus* Bangs, Amer. Nat., xxxi, 1897, p. 239. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 180. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 235. Zoöl. Ser.

ACADIAN VOLE.

- 1-2. Adult ♀ P. Mount Stewart, Prince Edward Island, Canada. R. T. Young.  
 3. Adult ♂ P. Georget, Prince Edward Island, Canada. R. T. Young.  
 4-12. Adult ♂ P. Allerton, Prince Edward Island, Canada. R. T. Young.  
 13-17. Adult ♀ P. Allerton, Prince Edward Island, Canada. R. T. Young.

*b. Microtus pennsylvanicus modestus* (Baird).

*Arvicola modesta* Baird, N. Am. Mamm., 1857, p. 535.

*Arvicola insperatus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 347.

*Microtus pennsylvanicus modestus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 180. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 236. Zoöl. Ser.

SAWATCH MEADOW VOLE.

- 1-81. Adult ♂ P. Boulder, Colorado. R. T. Young.  
 82-127. Adult ♀ P. Boulder, Colorado. R. T. Young.

*c. Microtus pennsylvanicus fontigenus* (Bangs).

*Microtus fontigenus* Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 48.

*Microtus pennsylvanicus fontigenus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 181. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 236. Zoöl. Ser.

## FOREST VOLE.

- 1-2. Adult ♂ Topotypes. Coll. Lake Edward, Province of Quebec, Canada. T. Surber.  
 3. Adult ♀ Topotype. Coll. Lake Edward, Province of Quebec, Canada. T. Surber.

481. *Microtus drummondi* (Audubon & Bachman).

*Arvicola drummondii* Aud. & Bachm., Quad. N. Am., III, 1854, p. 166.

*Arvicola (Mynomes) microcephalus* Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p. 286.

*Microtus stonei* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 5.

*Microtus drummondi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 181. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 236. Zoöl. Ser.

## DRUMMOND'S MEADOW VOLE.

- 1-7. Adult ♂ P. Blindman River, Alberta, Canada. G. F. Dippie.  
 8-10. Adult ♀ P. Blindman River, Alberta, Canada. G. F. Dippie.  
 11. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.  
 12. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.  
 13. Adult ♂ Coll. Bottineau, North Dakota. W. E. Snyder.  
 14-15. Adult ♀ Coll. Bottineau, North Dakota. W. E. Snyder.  
 16. Adult ♀ Coll. Oakes, North Dakota. W. E. Snyder.  
 17. Adult ♂ Coll. Steele, North Dakota. W. E. Snyder.

482. *Microtus terrænovæ* (Bangs).

*Arvicola terrænovæ* Bangs, Proc. Biol. Soc. Wash., IX, 1894, p. 129.

*Microtus terrænovæ* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 182. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 238. Zoöl. Ser.

## NEWFOUNDLAND MEADOW VOLE.

- 1-2. Adult ♂ Topotypes. Exch. Cordroy, Newfoundland. Am. Mus. Nat. Hist. N. Y.

483. *Microtus nanus* (Merriam).

*Arvicola nanus* Merr., N. Am. Faun., No. 5, 1891, p. 62, pl. II, figs. 5, 6.

*Microtus nanus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 184. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 239. Zoöl. Ser.



## DWARF MEADOW VOLE.

- 1-16. Adult ♂ P. Nederland, Colorado. R. T. Young.  
 17-30. Adult ♀ P. Nederland, Colorado. R. T. Young.  
 31-32. Adult ♂ P. Eldora, Colorado. R. T. Young.  
 33-35. Adult ♀ P. Eldora, Colorado. R. T. Young.

a. *Microtus nanus canescens* Bailey.

- Microtus nanus canescens* Bailey, Proc. Biol. Soc. Wash., XII, 1898, p. 87. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 185. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 239. Zoöl. Ser.

## GRAY MEADOW VOLE.

1. Adult ♂ P. Cariboo, British Columbia, Canada. C. K. Worth-  
 ern.

484. *Microtus canicaudus* Miller.

- Microtus canicaudus* Miller, Proc. Biol. Soc. Wash., XI, 1897, p. 67. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 185. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 239. Zoöl. Ser.

## GRAY-TAILED MEADOW VOLE.

- 1-6. Adult ♂ Topotypes. Coll. McCoy, Polk County, Oregon.  
 E. Heller.  
 7. Adult ♀ Coll. Beaverton, Oregon. E. Heller.

485. *Microtus dutcheri* Bailey.

- Microtus dutcheri* Bailey, Proc. Biol. Soc. Wash., XII, 1898, p. 85. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 185. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 239. Zoöl. Ser.

## DUTCHER'S MEADOW VOLE.

- 1-3. Adult ♂ Coll. Whitney Creek, Mt. Whitney, California.  
 E. Heller.  
 4. Juv. ♂ Coll. Whitney Creek, Mt. Whitney, California.  
 E. Heller.  
 5-16. Adult ♀ Coll. Whitney Creek, Mt. Whitney, California.  
 E. Heller.  
 17-20. Adult ♂ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller  
 21-28. Adult ♀ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.  
 29-31. Adult ♂ Topotypes. Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.  
 32-35. Adult ♀ Topotypes. Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.

- 36-41. Adult ♂ Coll. Hot Springs, Mt. Whitney, California. E. Heller.  
 42. Adult ♀ Coll. Hot Springs, Mt. Whitney, California. E. Heller.  
 43. Adult ♂ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.  
 44. Adult ♀ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.  
 45. Juv. ♂ Coll. Big Cottonwood Lakes, Mt. Whitney, California. E. Heller.

**486. *Microtus californicus* (Peale).**

*Arvicola californica* Peale, U. S. Expl. Exped., Mamm. & Ornith., VIII, 1848, p. 46.

*Arvicola trowbridgi* Baird, N. Am. Mamm., 1857, p. 529.

*Microtus californicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 186. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 240. Zool. Ser.

**CALIFORNIA MEADOW VOLE.**

- 1-16. Adult ♂ Coll. Nicasio, California. E. Heller.  
 17-22. Adult ♀ Coll. Nicasio, California. E. Heller.  
 23-28. Adult ♂ Coll. Petaluma, California. E. Heller.  
 29-33. Adult ♀ Coll. Petaluma, California. E. Heller.  
 34-37. Adult ♂ Coll. Point Reyes, California. E. Heller.  
 38-39. Adult ♀ Coll. Point Reyes, California. E. Heller.  
 40. Adult ♂ Coll. Los Angeles, California. E. Heller.  
 41-42. Adult ♀ Coll. Los Angeles, California. E. Heller.  
 43-44. Adult ♂ Coll. Fort Tejon, California. E. Heller.  
 45-47. Adult ♀ Coll. Fort Tejon, California. E. Heller.  
 48-51. Adult ♂ Coll. Piru Creek, California. E. Heller.  
 52-56. Adult ♀ Coll. Piru Creek, California. E. Heller.  
 57-59. Adult ♂ Coll. Oro Grande, California. E. Heller.  
 60-61. Adult ♀ Coll. Oro Grande, California. E. Heller.

*a. Microtus californicus hyperythrus* Elliot.

*Microtus californicus hyperythrus* Elliot, Pub. Field Columb. Mus.,

III, 1903, p. 161. Zool. Ser. *Id.* Mamm. Middle Amer. & W.

Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 302, figs. 51, XLV.

Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 240. Zool. Ser.

**REDDISH MEADOW VOLE.**

1. Adult ♂ Type.\* Coll. La Grulla, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.

\*By some quite inexplicable inadvertence, the type locality for this species has been given as San Quentin, when it should have been "La Grulla."



FIG. XXXV. *MICROTUS C. HYPERYTHRUS*.  
REDDISH MEADOW VOLE.

- 2-7. Adult ♀ Paratypes. Coll. La Grulla, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 8-10. Adult ♂ Coll. Aguaje de las Fresas, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 11-14. Adult ♀ Coll. Aguaje de las Fresas, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 15. Adult ♂ Coll. Vallecitos, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 16-17. Adult ♀ Coll. Vallecitos, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 18. Adult ♂ Coll. San Antonio, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 19. Adult ♀ Coll. San Antonio, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 20-25. Adult ♂ Coll. San Quentin, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.
- 26-31. Adult ♀ Coll. San Quentin, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.

*b. Microtus californicus vallicola* Bailey.

*Microtus californicus vallicola* Bailey, Proc. Biol. Soc. Wash., XII, 1898, p. 89. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 186. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 240. Zool. Ser.

VALLEY MEADOW VOLE.

- 1-13. Adult ♂ Topotypes. Coll. Lone Pine, Inyo County, California. E. Heller.
- 14. Juv. ♂ Topotype. Coll. Lone Pine, Inyo County, California. E. Heller.
- 15-25. Adult ♀ Topotypes. Coll. Lone Pine, Inyo County, California. E. Heller.



c. *Microtus californicus constrictus* Bailey.

*Microtus californicus constrictus* Bailey, N. Am. Faun., No. 17, 1900, p. 36. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 186. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 241. Zoöl. Ser.

COAST MEADOW VOLE.

- 1-6. Adult ♂ Coll. Mendocino, California. E. Heller.
- 7-9. Adult ♀ Coll. Mendocino, California. E. Heller.
- 10-20. Adult ♂ Coll. Eureka, California. E. Heller.
- 21-25. Adult ♀ Coll. Eureka, California. E. Heller.

487. *Microtus edax* (Le Conte).

*Arvicola edax* Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p. 405. *Microtus edax* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 187. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 241. Zoöl. Ser.

TULE MEADOW VOLE.

- 1-9. Adult ♂ P. Portola, San Mateo County, California. W. W. Price.
- 10-29. Adult ♀ P. Portola, San Mateo County, California. W. W. Price.
- 30. Juv. ♂ P. Portola, San Mateo County, California. W. W. Price.
- 31-33. Juv. ♀ P. Portola, San Mateo County, California. W. W. Price.
- 34. Adult ♂ Pres. Palo Alto, California. E. Heller.
- 35-37. Adult ♀ Pres. Palo Alto, California. E. Heller.
- 38-42. Adult ♂ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
- 43-55. Adult ♀ P. Alum Rock Park, Santa Clara County, California. W. W. Price.
- 56-57. Adult ♂ P. Mt. Hamilton, Santa Clara County, California. W. W. Price.
- 58-60. Adult ♂ P. Carmel River, Monterey County, California. W. W. Price.
- 61. Adult ♂ P. Big Trees, Calaveras County, California. W. W. Price.
- 62. Adult ♂ P. San Antonio, San Bernardino County, California. W. W. Price.
- 63. Adult ♀ P. Snow Mountains, Santa Clara County, California. W. W. Price.
- 64. Adult ♂ P. Stanford University, California. W. W. Price.
- 65. Juv. ♂ P. Stanford University, California. W. W. Price.



66-67. Adult ♀ P. Stanford University, California. W. W. Price.

**488. *Microtus yakutatensis* Merriam.**

*Microtus yakutatensis* Merr., Proc. Wash. Acad. Scien., II, 1900, p. 22. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 188. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 242. Zoöl. Ser.

**YAKUTAT MEADOW VOLE.**

1. Juv. ♂ Topotype. Coll. Yakutat Bay, Alaska. D. G. Elliot.

**489. *Microtus kadiacensis* Merriam.**

*Microtus kadiacensis* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 222. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 188. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 242. Zoöl. Ser.

**KADIAK MEADOW VOLE.**

1. Adult ♂ Coll. Kadiak, Kadiak Island, Alaska. D. G. Elliot.

2. Juv. ♀ Coll. Kadiak, Kadiak Island, Alaska. D. G. Elliot.

**a. *Microtus unalascensis popofensis* Merriam.**

*Microtus unalascensis popofensis* Merr., Proc. Wash. Acad. Scien., II, 1900, p. 22. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 188. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 242. Zoöl. Ser.

**POPOF ISLAND MEADOW VOLE.**

1-4. Adult — Topotypes. Coll. Popof Island, Shumagin Islands, Alaska. D. G. Elliot.

5. Juv. — Topotype. Coll. Popof Island, Shumagin Islands, Alaska. D. G. Elliot.

**490. *Microtus abbreviatus* Miller.**

*Microtus abbreviatus* Miller, Proc. Biol. Soc. Wash., XIII, 1899, p. 13. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 189. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 243. Zoöl. Ser.

**HALL ISLAND MEADOW VOLE.**

1. Adult ♂ Topotype. Coll. Hall Island, Bering Sea, Alaska. D. G. Elliot.

2. Adult ♀ Topotype. Coll. Hall Island, Bering Sea, Alaska. D. G. Elliot.

**491. *Microtus townsendi* (Bachman).**

*Arvicola townsendii* Bachm., Jour. Acad. Nat. Scien. Phil., 1839, p. 60, pl. 1.

*Arvicola occidentalis* Peale, U. S. Expl. Exped., Mamm. & Ornith., VIII, 1848, p. 45.

*Microtus townsendi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 190. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 243. Zoöl. Ser.

TOWNSEND'S MEADOW VOLE.

- 1-8. Adult ♂ Coll. Eureka, California. E. Heller.
- 9-12. Adult ♀ Coll. Eureka, California. E. Heller.
- 13. Adult ♂ Coll. Scottsburg, Oregon. E. Heller.
- 14-20. Adult ♂ Coll. Marshfield, Oregon. E. Heller.
- 21-22. Adult ♂ Coll. Florence, Oregon. E. Heller.
- 23. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
- 24-25. Adult ♀ Coll. Gardiner, Oregon. E. Heller.
- 26-27. Adult ♂ Coll. McCoy, Oregon. E. Heller.
- 28-29. Adult ♀ Coll. McCoy, Oregon. E. Heller.

492. *Microtus longicaudus* (Merriam).

*Arvicola (Mynomes) longicaudus!* Merr., Amer. Nat., XXII, 1888, p. 934.

*Microtus longicaudus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 191. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 243. Zoöl. Ser.

LONG-TAILED MEADOW VOLE.

- 1. Adult ♂ P. Yanceys, Yellowstone Nat. Park. E. S. Thompson.

493. *Microtus mordax* (Merriam).

*Arvicola (Mynomes) mordax* Merr., N. Am. Faun., No. 5, 1891, p. 61.

*Microtus vellerosus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 7.

*Microtus cautus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 7.

*Microtus mordax* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 191. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 244. Zoöl. Ser.

CANTANKEROUS MEADOW VOLE.

- 1-13. Adult ♂ P. Silver Lake, Amador County, California. W. W. Price.
- 14-28. Adult ♀ P. Silver Lake, Amador County, California. W. W. Price.
- 29-33. Juv. ♀ P. Silver Lake, Amador County, California. W. W. Price.
- 34-38. Adult ♂ P. Hermit Valley, Calaveras County, California. W. W. Price.

- 39-45. Adult ♀ P. Hermit Valley, Calaveras County, California. W. W. Price.
- 46-47. Juv. ♀ P. Hermit Valley, Calaveras County, California. W. W. Price.
48. Adult ♂ P. Edgewood, Douglas County, Nevada. W. W. Price.
49. Adult ♀ P. Canadian National Park, Alberta, Canada. G. F. Dippie.
- 50-51. Adult ♂ P. Pyramid Peak, Eldorado County, California. W. W. Price.
- 52-53. Adult ♀ P. Pyramid Peak, Eldorado County, California. W. W. Price.
54. Adult ♂ P. Blue Lake, Alpine County, California. W. W. Price.
55. Adult ♀ P. Blue Lake, Alpine County, California. W. W. Price.
56. Adult ♀ P. Echo, Eldorado County, California. W. W. Price.
57. Adult ♂ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.

**494. *Microtus macrurus* Merriam.**

- Microtus macrurus* Merr., Proc. Acad. Nat. Scien. Phil., 1898, p. 353. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 191. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 244. Zoöl. Ser.

**OLYMPIC MEADOW VOLE.**

- 1-7. Adult ♂ Coll. Johnson's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.
8. Adult ♂ Coll. Boulder Creek, Clallam County, Washington. D. G. Elliot.

**495. *Microtus angusticeps* Bailey.**

- Microtus angusticeps* Bailey, Proc. Biol. Soc. Wash., XII, 1898, p. 86. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 192. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 244. Zoöl. Ser.

**COAST MEADOW VOLE.**

- 1-8. Adult ♂ Topotypes. Coll. Crescent City, California. E. Heller.
- 9-12. Adult ♀ Topotypes. Coll. Crescent City, California. E. Heller.
- 13-17. Adult ♂ Coll. Requa, California. E. Heller.
- 18-20. Adult ♀ Coll. Requa, California. E. Heller.

21-31. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.

32-40. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.

**496. *Microtus alticola* (Merriam).**

*Arvicola (Mynomes) alticolus!* Merr., N. Am. Faun., No. 3, 1890, p. 67, pl. v, figs. 1, 2, and pl. vi, figs. 1-4.

*Microtus alticola* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 192. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 244. Zoöl. Ser.

**MOUNTAIN MEADOW VOLE.**

1. Juv. ♂ P. White Mountains, Arizona. W. W. Price.

2. Adult ♀ P. White Mountains, Arizona. W. W. Price.

3. Adult ♂ P. Florida, La Plata County, Colorado. C. P. Rowley.

**a. *Microtus alticola leucophæus* (Allen).**

*Arvicola leucophæus!* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 320.

*Microtus alticola leucophæus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 192. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 245. Zoöl. Ser.

**GRAHAM MOUNTAIN MEADOW VOLE.**

1-2. Adult ♀ Paratypes. P. Graham Mountains, Arizona. W. W. Price.

**497. *Microtus mexicanus* (Saussure).**

*Arvicola (Hemiotomys) mexicanus* Sauss., Rev. Mag. Zool., 2me Sér., XIII, 1861, p. 3.

*Microtus mexicanus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 301. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 245. Zoöl. Ser.

**MEXICAN MEADOW VOLE.**

1-6. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

7-12. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

13. Juv. ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

14. Adult ♂ Coll. Mount Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

15-17. Adult ♀ Coll. Mount Orizaba, State of Vera Cruz, Mexico. Heller & Barber.



*a. Microtus mexicanus phæus* (Merriam).

*Arvicola phæus!* Merr., Proc. Biol. Soc. Wash., VII, 1892, p. 171.

*Microtus mexicanus phæus* Elliot, Mamm. Middle Amer. & W.

Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 302. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,

VI, 1905, p. 245. Zoöl. Ser.

COLIMA OR DARK MEADOW VOLE.

1-2. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

3. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

498. *Microtus mogollonensis* (Mearns).

*Arvicola mogollonensis* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 283.

*Microtus mogollonensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,

II, 1901, p. 192. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 246. Zoöl.

Ser.

MOGOLLON MOUNTAINS MEADOW VOLE.

1. Adult ♂ Exch. Bradshaw City, Arizona. Am. Mus. Nat. Hist. N. Y.

Subgenus B. *Lagurus*.

499. *Microtus curtatus* (Cope).

*Arvicola curtata* Cope, Proc. Acad. Nat. Scien. Phil., 1868, p. 2.

*Arvicola (Pedomys) austerus curtatus* Coues, Mon. N. Am. Rodent., 1877, p. 215.

*Microtus curtatus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,

1901, p. 195, fig. 39. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 247. Zoöl. Ser.

SHORT-TAILED MEADOW VOLE.

1-2. Juv. ♀ P. Mount Siegel, Douglas County, Nevada. W. W. Price.

Subgenus C. *Pedomys*.

500. *Microtus austerus* (Le Conte).

? *Hypudæus ochrogaster* Wagn., Schreb. Säugth., Suppl., III, 1843, p. 592.

*Arvicola austerus* Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p.

405.

*Arvicola cinnamomea* Baird, N. Am. Mamm., 1857, p. 541.

*Microtus austerus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 196, fig. 40. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 248. Zoöl. Ser.

PRAIRIE MEADOW VOLE.

- 1-6. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.
- 7-13. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.
- 14-15. Adult ♂ P. Knoxville, Iowa. G. K. Cherrie.
- 16. Adult — P. Knoxville, Iowa. G. K. Cherrie.
- 17. Adult ♂ Exch. Lawrence, Kansas. Am. Mus. Nat. Hist. N. Y. L. L. Dyche.
- 18-20. Juv. ♂ P. Lawrence, Kansas. J. Rowley.
- 21. Juv. ♀ P. Lawrence, Kansas. J. Rowley.
- 22. Adult ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 23. Adult ♀ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 24. Juv. ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

501. *Microtus minor* (Merriam).

*Arvicola austerus! minor* Merr., Amer. Nat., XXII, 1888, p. 598.

*Microtus minor* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 197. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 248. Zoöl. Ser.

LEAST UPLAND MEADOW VOLE.

- 1-5. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.
- 6. Adult ♀ P. Red Deer River, Alberta, Canada. G. F. Dippie.
- 7-9. Juv. — P. Red Deer River, Alberta, Canada. G. F. Dippie.
- 10. Adult ♂ Coll. Minot, North Dakota. W. E. Snyder.
- 11. Adult ♀ Coll. Minot, North Dakota. W. E. Snyder.
- 12. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
- 13. Adult ♀ Coll. Jamestown, North Dakota. W. E. Snyder.
- 14. Adult ♀ Coll. Minnewaukon, North Dakota. W. E. Snyder.

Subgenus D. *Pitymys*.

502. *Microtus pinetorum* (Le Conte).

*Psammomys pinetorum* Le Conte, Ann. N. Y. Lyc. Nat. Hist., III, 1830, p. 133, pl. II.

*Microtus pinetorum* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 198, fig. 41. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 249. Zoöl. Ser.

## PINE MEADOW VOLE.

1. Adult ♂ Exch. Suffolk County, New York. Am. Mus. Nat. Hist. N. Y. A. H. Helme.
- 2-4. Adult ♂ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
5. Adult ♀ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
- 6-10. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
- 11-12. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.
- 13-14. Adult ♀ Coll. Apex, North Carolina. T. Surber.
15. Adult ♀ Coll. Catawba, South Carolina. T. Surber.

503. *Microtus nemoralis* (Bailey).

- Microtus pinetorum nemoralis* Bailey, Proc. Biol. Soc. Wash., XII, 1898, p. 89.
- Microtus nemoralis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 199. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 249. Zoöl. Ser.

## WOODLAND MEADOW VOLE.

- 1-2. Adult ♀ Coll. Dougherty, Indian Territory. T. Surber.
3. Adult ♀ Coll. Noble, Oklahoma Territory. T. Surber.

504. *Microtus quasiater* (Coues).

- Arvicola (Pitymys) pinetorum quasiater* Coues, Proc. Acad. Nat. Scien. Phil., 1874, p. 191.
- Microtus quasiater* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 303, fig. 52. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 249. Zoöl. Ser.

## JALAPA MEADOW VOLE.

- 1-6. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
- 7-12. Adult ♀ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
- 13-14. Adult ♀ Exch. Jalapa, State of Vera Cruz, Mexico. Am. Mus. Nat. Hist. N. Y. F. M. Chapman.

Subgenus E. *Ohilotus*.505. *Microtus oregoni* (Bachman).

- Arvicola oregoni* Bachm., Jour. Acad. Nat. Scien. Phil., 1839, p. 60, pl. 1.

*Microtus oregoni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 200, fig. 42. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 250. Zoöl. Ser.

OREGON MEADOW VOLE.

- 1-6. Adult ♂ Coll. Eureka, California. E. Heller.
- 7-10. Adult ♀ Coll. Eureka, California. E. Heller.
- 11. Adult ♂ Coll. Mendocino, California. E. Heller.
- 12-13. Adult ♀ Coll. Requa, California. E. Heller.
- 14-17. Adult ♂ Coll. Beavertown, Oregon. E. Heller.
- 18-21. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
- 22. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- 23-25. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 26-33. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 34-37. Adult ♂ Coll. Johnson's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.

506. *Microtus serpens* Merriam.

*Microtus serpens* Merr., Proc. Biol. Soc. Wash., 1897, p. 75. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 200. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 250. Zoöl. Ser.

CREEPING MEADOW VOLE.

- 1-2. Adult ♂ Exch. Sumas, British Columbia, Canada. U. S. Nat. Mus. C. K. Worthern.

Subgenus F. *Arvicola*.

507. *Microtus schermaus* F. Cuvier.

*Microtus schermaus* F. Cuv., Dict. Scien. Natur., VI, 1817, p. 281.

SCHERMAUS VOLE.

- 1-5. Adult ♂ P. Meiringen, Switzerland. J. A. Loring.
- 6-9. Adult ♀ P. Meiringen, Switzerland. J. A. Loring.

a. *Microtus richardsoni arvicoloides* (Rhoads).

*Aulacomys arvicoloides* Rhoads, Amer. Nat., XXVIII, 1894, p. 182.

*Microtus principalis* Rhoads, Amer. Nat., XXIX, 1895, p. 940.

*Microtus richardsoni arvicoloides* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 202. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 251. Zoöl. Ser.



## CASCADE WATER VOLE.

- 1-2. Adult ♂ P. Mt. Baker Range, British Columbia, Canada.  
C. K. Worthern.

Subgenus G. *Neofiber*.508. *Microtus alleni* (True).

*Neofiber alleni* True, Science, IV, 1884, p. 34.

*Microtus alleni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 203, fig. 44. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 252. Zoöl. Ser.

## FLORIDA WATER VOLE.

- 1-5. Adult ♂ Coll. Gainesville, Florida. T. Surber.  
6-10. Adult ♀ Coll. Gainesville, Florida. T. Surber.  
11-12. Juv. ♂ Coll. Gainesville, Florida. T. Surber.  
13. Juv. ♀ Coll. Gainesville, Florida. T. Surber.  
14-16. Adult ♂ Coll. Enterprise, Florida. T. Surber.  
17-19. Adult ♀ Coll. Enterprise, Florida. T. Surber.  
20-22. Juv. ♀ Coll. Enterprise, Florida. T. Surber.  
23. Juv. ♂ Coll. Enterprise, Florida. T. Surber.  
24. Adult — Exch. East Micco, Florida. Am. Mus. Nat. Hist. N. Y. C. S. Allen.

Genus 141. **Fiber. Musk Rats.**

**Fiber** F. Cuv., Leçons d'Anat. Comp., I, 1800, tab. 1. Type *Castor zibethicus* Linnæus.

*Ondatra* Lacép., Tabl. Div. Sous-div. Ord. et Gen. Mamm., 1799, p. 9. (nec Link.)

*Moschomys* Billb., Syn. Faun. Scandinav., Mamm., I, 1828, Consp. A.

509. *Fiber zibethicus* (Linnæus).

*Castor zibethicus* Linn., Syst. Nat., I, 1766, p. 79.

*Fiber osoyoosensis* Lord, Proc. Zoöl. Soc., 1863, p. 97.

*Fiber zibethicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 212, fig. 49. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 252. Zoöl. Ser.

MUSK RAT. *Ondatra*, Indian name.

1. Adult ♂ Exch. Trousers Lake, New Brunswick, Canada.  
Am. Mus. Nat. Hist. N. Y. J. Rowley.

2. Adult ♀ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
  3. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
  - 4-5. Adult — Pres. Indiana. A. Schubert.
  - 6-9. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
  10. Adult ♂ Pres. Laporte, Indiana. C. M. Barber.
  - 11-12. Adult ♂ Pres. Chicago, Illinois. M. Kane.
  - 13-14. Juv. ♂ P. Boulder, Colorado. R. T. Young.
  - 15-16. Juv. ♀ P. Boulder, Colorado. R. T. Young.
  - 17-18. Adult — Pres. Green Bay, Wisconsin. A. Schubert.
  19. Adult ♀ Coll. Oakes, North Dakota. W. E. Snyder.
  20. Adult ♀ Exch. Custer, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
  21. Adult ♂ P. Kettle River, Alberta, Canada. G. F. Dippie.
  22. Adult ♀ P. Swan Lake, Alberta, Canada. G. F. Dippie.
- a. *Fiber zibethicus pallidus* Mearns.

*Fiber zibethicus pallidus* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 280. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 213. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 308, fig. 55. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 253. Zoöl. Ser.

#### PALE MUSK RAT.

- 1-2. Adult ♂ Topotypes. Exch. Fort Verde, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

#### 510. *Fiber spatulatus* Osgood.

*Fiber spatulatus* Osgood, N. Am. Faun., No. 19, 1900, p. 36. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 214. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 254. Zoöl. Ser.

#### NORTHWEST TERRITORY MUSK RAT.

1. Adult ♂ Coll. Beaverton, Oregon. E. Heller.
2. Adult ♂ P. Cariboo, British Columbia. C. K. Worthern.

#### 511. *Fiber occipitalis* Elliot.

*Fiber occipitalis* Elliot, Pub. Field Columb. Mus., III, 1903, p. 162, fig. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 254. Zoöl. Ser.

#### OREGON MUSK RAT.

- 1-3. Adult ♂ Paratypes. Coll. Florence, Oregon. E. Heller.
4. Adult ♀ Type. Coll. Florence, Oregon. E. Heller.

**512. Fiber obscurus** Bangs.

*Fiber obscurus* Bangs, Proc. Biol. Soc. Wash., ix, 1894, p. 133.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 214.  
 Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,  
 F. C. M. Pub., VI, 1905, p. 254. Zool. Ser.

**DUSKY MUSK RAT.**

1. Adult ♂ Exch. St. George's Bay, Newfoundland. Am.  
 Mus. Nat. Hist. N. Y.

Genus 142. **Synaptomys. Lemming Voles.**

**Synaptomys** Baird, N. Am. Mamm., 1857, p. 558. Type *Synaptomys cooperi* Baird.

Subgenus A. **Synaptomys.****513. Synaptomys cooperi** Baird.

*Synaptomys cooperi* Baird, N. Am. Mamm., 1857, p. 558. Elliot,  
 Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 203, fig. 45.  
 Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,  
 F. C. M. Pub., VI, 1905, p. 255. Zool. Ser.

**COOPER'S LEMMING VOLE.**

1. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
2. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.

**514. Synaptomys fatuus** Bangs.

*Synaptomys fatuus* Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 47.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 204.  
 Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,  
 F. C. M. Pub., VI, 1905, p. 256. Zool. Ser.

**SILLY LEMMING VOLE.**

- 1-2. Adult ♂ Topotypes. Coll. Lake Edward, Province of  
 Quebec, Canada. T. Surber.
3. Adult ♀ Topotype. Coll. Lake Edward, Province of  
 Quebec, Canada. T. Surber.

Genus 143. **Lemmus. Lemmings.**

**Lemmus** Link, Zool. Beyt. Natur., I, Pt. 2, 1795, p. 75. Type *Mus lemmus* Linnæus.

*Myodes* Pallas, Zoog. Rosso-Asiat., I, 1811, p. 172.

*Lemmus* Rocherb., Actes Soc. Linn. Bordeaux, XII, 1841, No. 42, p. 216.

**515. *Lemmus trimucronatus* (Richardson).**

*Arvicola trimucronatus* Rich., Journ. Parry's 2d Voy., 1825, Append., p. 309.

*Myodes albigularis* Wagn., Schreb. Säugth., Suppl., III, 1843, p. 602.

*Lemmus alascensis* Merr., Proc. Wash. Acad. Sciën., II, 1900, p. 26.

*Lemmus trimucronatus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 207, fig. 47. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 258. Zoöl. Ser.

**RICHARDSON'S LEMMING.**

1-33. Adult ♂ P. Point Barrow, Alaska. E. A. McIlhenny.

34-48. Adult ♀ P. Point Barrow, Alaska. E. A. McIlhenny.

49-50. Juv. ♀ P. Point Barrow, Alaska. E. A. McIlhenny.

**516. *Lemmus lemmus* (Linnæus).**

*Mus lemmus* Linn., Syst. Nat., I, 1766, p. 80. Miller, N. Am. Faun., No. 12, 1896, p. 37, figs. 11, 12.

**EUROPEAN LEMMING.**

1. Adult — P. Sweden. Ward's Nat. Scien. Establ., Rochester, N. Y.

**Genus 144. *Dicrostonyx*. Forked-claw Lemmings.**

***Dicrostonyx*** Glog., Gem. Hand-d. Hilfsb. Naturg., 1841, pp. xxxi, 97. Type *Mus hudsonius* Pallas.

*Cuniculus* Wagl., Nat. Syst. Amph., 1830, p. 121. (nec Brisson, nec Meyer.)

*Myolemmus* Pomel, Cat. Méth. Vert. Foss. Bass. Loire, 1854, p. 27.

*Misothermus* Hensel, Zeitsch. Deutsch. Geol. Gesellsch., VII, 1855, p. 492. (Part.)

*Borioikon* Poliakoff, Ann. au tome xxxix, Mém. Acad. St. Pétersb., No. 2, 1881, p. 35.

*Tylonyx* Schulze, Mamm. Europ. Hel. Abhandl. u. Vorträge Gesammtg. Naturw., Berlin, XIV, 1897, p. 83.

**a. *Dicrostonyx hudsonius nelsoni* (Merriam).**

*Dicrostonyx nelsoni* Merr., Proc. Wash. Acad. Sciën., II, 1900, p. 25.



*Dicrostonyx hudsonius alascensis* Stone, Proc. Acad. Nat. Scien. Phil., 1900, p. 37.

*Dicrostonyx hudsonius nelsoni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 210, fig. 48. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 260. Zoöl. Ser.

NELSON'S LEMMING.

1-5. Adult ♂ P. Point Barrow, Alaska. E. A. McIlhenny.

6. Adult ♀ P. Point Barrow, Alaska. E. A. McIlhenny.

Genus 145. **Lemmomys.**

**Lemmomys** Less., Nouv. Tabl. Règn. Anim., Mamm., 1842, p. 123.

Type *Mus talpinus* Pallas.

*Ellobius* Fisch., Zoogn., III, 1814, p. 72. (nec *Ellobium* Bolton, 1798, Mollusca.)

**517. Lemmomys talpinus** (Pallas).

*Mus talpinus* Pall., Nov. Comm. Acad. Scien. Petrop., XIV, Pt. 1, 1770, p. 568.

**MOLE MOUSE.**

1. Adult — P. Tamak. Th. Schmidt.

Family VII. **Spalacidae. Mole Rats.**

Subfamily I. **Spalacinae.**

Genus 146. **Spalax.**

**Spalax** Gueldenst., Nov. Comm. Acad. Scien. Petrop., XIV, Pt. 1, 1770, p. 409. Type *Spalax microphthalmus* Gueldenstaedt.

*Ommatostergus* Nordm., Keyserl. & Blas. Wirbelth. Europ., 1840, pp. VII, 31.

**518. Spalax typhlus** Pallas.

*Spalax typhlus* Pall., Nov. Sp. Quad. Glir. Ord., 1778, p. 76.

**GREAT MOLE RAT.**

1. Adult — P. Kuslendji, Turkey. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family VIII. **Geomyidæ. Pouched Rats.**Genus 147. **Geomys. Pocket Gophers.**

**Geomys** Rafin., Am. Month. Mag., II, No. 1, 1817, p. 45. Type

*Geomys pinetis* Rafinesque = *Mus tuza* Ord.

*Diplostoma* Rafin., Am. Month. Mag., II, No. 1, 1817, p. 44.

*Saccophorus* Kuhl, Beitr. Zool. und vergl. Anat., 1820, p. 65.

*Pseudostoma* Say, Long's Exped. Rocky Mts., I, 1823, p. 406.

*Ascomys* Licht., Abhand. K. Akad. Wiss. Berl., 1825, p. 20, fig. 2.

**519. Geomys tuza (Ord).**

*Mus tuza* Ord, Guth. Geogr., 2d Amer. ed., II, 1815, p. 292.

*Geomys pinetis* Rafin., Am. Month. Mag., II, No. 1, 1817, p. 45.

*Geomys tuza* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,  
p. 215, fig. 50. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 261. Zool. Ser.

**PINE BARRENS POCKET GOPHER.**

1. Adult ♂ Coll. Rocky Ford, Georgia. T. Surber.

**a. Geomys tuza floridanus (Audubon & Bachman).**

*Pseudostoma floridana* Aud. & Bachm., Quad. N. Am., III, 1854,  
p. 242.

*Geomys tuza floridanus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
II, 1901, p. 215. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 261. Zool. Ser.

**FLORIDA POCKET GOPHER.**

1. Adult ♂ Coll. New Berlin, Florida. T. Surber.

2-6. Adult ♀ Coll. New Berlin, Florida. T. Surber.

7. Adult ♂ Coll. Citronelle, Florida. T. Surber.

8. Adult ♀ Coll. Citronelle, Florida. T. Surber.

9. Adult ♂ Coll. St. Charles Creek, Florida. T. Surber.

10. Adult ♂ Coll. Gainesville, Florida. T. Surber.

11-13. Adult ♀ Coll. Gainesville, Florida. T. Surber.

14-15. Adult ♀ Exch. Gainesville, Florida. Am. Mus. Nat. Hist.  
N. Y. F. M. Chapman.

**b. Geomys tuza mobilensis Merriam.**

*Geomys tuza mobilensis* Merr., N. Am. Faun., No. 8, 1895, p. 119,  
pls. & figs. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,  
1901, p. 216. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont.

& W. Indies, F. C. M. Pub., VI, 1905, p. 262. Zool. Ser.

*Geomys floridanus austrinus* Bangs, Proc. Bost. Soc. Nat. Hist.,  
1898, p. 177.

*Geomys tuza austrinus* Elliot, Pub. Field Columb. Mus., III, 1901, p. 49. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 217. Zoöl. Ser.

MOBILE POCKET GOPHER.

- 1-3. Adult ♂ Melanistic. Coll. St. Marys, Georgia. T. Surber.
- 4-8. Adult ♂ Coll. Tarpon Springs, Florida. T. Surber.
- 9-11. Adult ♀ Coll. Tarpon Springs, Florida. T. Surber.
- 12-13. Juv. ♀ Coll. Tarpon Springs, Florida. T. Surber.
- 14. Adult ♀ Exch. Tarpon Springs, Florida. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.

520. *Geomys bursarius* (Shaw).

*Mus bursarius* Shaw, Trans. Linn. Soc., v, 1800, p. 227, pl. 8.

*Diplostoma fusca* Rafin., Am. Month. Mag., II, No. 1, 1817, p. 45.

*Geomys cinerea* Rafin., Am. Month. Mag., II, No. 1, 1817, p. 45.

*Saccophorus bursarius* Kuhl, Beitr. Zool., 1820, p. 65.

*Mus saccatus* Mitch., N. Y. Med. Rep., VI, 1821, p. 249.

*Ascomys canadensis* Licht., Abh. K. Akad. Wiss. Berlin, 1825, p. 20, fig. 2.

*Geomys oregonensis* Le Conte, Proc. Acad. Nat. Scien. Phil., VI, 1852, p. 160.

*Geomys bursarius* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 217. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 263. Zoöl. Ser.

SHAW'S POCKET GOPHER.

- 1-3. Adult ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 4. Juv. ♀ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 5. Juv. ♂ Exch. St. Joseph County, Indiana. Am. Mus. Nat. Hist. N. Y. F. M. Noe.
- 6. Adult ♀ P. Lawrence, Kansas. J. Rowley.
- 7. Adult — P. —? Ward's Nat. Scien. Establ., Rochester, N. Y.

521. *Geomys lutescens* (Merriam).

*Geomys bursarius lutescens* Merr., N. Am. Faun., No. 4, 1890, p. 51.

*Geomys lutescens* Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 127. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 218. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 263. Zoöl. Ser.

## PALE POCKET GOPHER.

1. Adult ♂ P. Boulder, Colorado. R. T. Young.
- 2-5. Adult ♀ P. Boulder, Colorado. R. T. Young.

522. *Geomys breviceps* Baird.

- Geomys breviceps* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 335. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 218. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 263. Zoöl. Ser.

## SHORT-HEADED POCKET GOPHER.

- 1-4. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.
- 5-10. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.

a. *Geomys breviceps attwateri* Merriam.

- Geomys breviceps attwateri* Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 135, pl. 9, fig. 3. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 219. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 263. Zoöl. Ser.

## ATTWATER'S POCKET GOPHER.

- 1-3. Adult ♂ Topotypes. Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
- 4-5. Adult ♀ Topotypes. Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

523. *Geomys texensis* Merriam.

- Geomys texensis* Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 137, pls. & figs. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 219. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 264. Zoöl. Ser.

## TEXAS POCKET GOPHER.

1. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
2. Adult ♀ Exch. Fort Clark, Kinney County, Texas. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

Genus 148. **Cratogeomys. Powerful Pocket Gophers.**

- Cratogeomys** Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 150. Type *Geomys merriami* Thomas.

524. *Cratogeomys perotensis* Merriam.

- Cratogeomys perotensis* Merr., Mon. Geomyidæ, N. Am. Faun.,



No. 8, 1895, p. 154, pl. 8, fig. 6. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 313. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 265. Zoöl. Ser.

PEROTE POCKET GOPHER.

1-3. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

**525. *Cratogeomys estor* Merriam.**

*Cratogeomys estor* Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 155, pl. 8, figs. 4, 5. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 314. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 265. Zoöl. Ser.

LAS VIGAS POCKET GOPHER.

1-3. Adult ♂ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

**526. *Cratogeomys castanops* (Baird).**

*Pseudostoma castanops* Baird, Rep. Stansb. Exped. to Great Salt Lake, 1852, p. 313.

*Geomys clarkii* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 332.

*Cratogeomys castanops* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 220, fig. 51. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 315, figs. 57, XLVI. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 266. Zoöl. Ser.

CHESTNUT-FACED POCKET GOPHER.

1. Adult ♂ Coll. Paladura Cañon, Texas. T. Surber.

2-3. Adult ♀ Coll. Paladura Cañon, Texas. T. Surber.

Genus 149. ***Pappogeomys*. Ancient Pocket Gophers.**

***Pappogeomys*** Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 145, pls. and figs. Type *Geomys bulleri* Thomas.

**527. *Pappogeomys bulleri* (Thomas).**

*Geomys bulleri* Thos., Ann. Mag. Nat. Hist., 6th Ser., 1892, p. 196.

*Geomys nelsoni* Merr., Proc. Biol. Soc. Wash., VII, 1892, p. 164.

*Pappogeomys bulleri* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 320, fig. 59. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 268. Zoöl. Ser.

**BULLER'S POCKET GOPHER.**

1. Adult ♀ P. Sierra de Fuanacathan, Mexico. E. Gerrard & Sons.

Genus 150. **Orthogeomys. Straight-headed Pocket Gophers.**

**Orthogeomys** Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 172, pls. & figs. Type *Geomys scalops* Thomas.

**528. Orthogeomys cuniculus** Elliot.

*Orthogeomys cuniculus* Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 234.

**BURROWING POCKET GOPHER.**

1. Adult ♂ Type. Coll. \*Zanatepec, State of Oaxaca, Mexico. Heller & Barber.
2. Juv. ♀ Paratype. Coll. Zanatepec, State of Oaxaca, Mexico. Heller & Barber.

Genus 151. **Heterogeomys. Distinct Pocket Gophers.**

**Heterogeomys** Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 179, pls. & figs. Type *Geomys hispidus* Le Conte.

**529. Heterogeomys torridus** Merriam.

*Heterogeomys torridus* Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 183, pls. & figs. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 326, fig. 61. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 270. Zoöl. Ser.

**TROPICAL POCKET GOPHER.**

- 1-2. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
3. Juv. ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 4-6. Juv. ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
7. Juv. ♀ Pres. Buenavista, Yucatan. G. F. Gaumer.

\*By a misreading of the collector's label, the word not having been plainly written, the type locality was originally given as *Yautepec*, when it should have been ZANATEPEC.

**530. *Heterogeomys lanius* Elliot.**

*Heterogeomys lanius* Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 235.

**WOOLLY POCKET GOPHER.**

- 1-2. Adult ♀ Type and paratype. Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

Genus 152. **Macrogeomys. Large Pocket Gophers.**

**Macrogeomys** Merr., Mon. Geomyidæ, N. Am. Faun., No. 8, 1895, p. 185. Type *Geomys heterodus* Peters.

**531. *Macrogeomys cherrii* (Allen).**

*Geomys cherriei* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 337.

*Macrogeomys cherrii* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 330, fig. 62. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 271. Zoöl. Ser.

**CHERRIE'S POCKET GOPHER.**

- 1-2. Adult — P. Jimenez, Costa Rica. A. Alfaro.

Genus 153. **Thomomys. Pocket Gophers.**

**Thomomys** Max., Nov. Act. Phys. Med. Acad. Cæs. Leop.-Carol., XIX, 1839, p. 377. Type *Thomomys rufescens* Maximilian.

*Diplostoma* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 206. (nec Rafinesque.)

*Oryctomys* Eyd. & Gerv., Mag. Zool., VI, 1836, p. 23. (Part.)

*Megascapheus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 190. Zoöl. Ser.

Subgenus A. **Megascapheus.****532. *Thomomys bulbivorus* (Richardson).**

*Diplostoma bulbivorum* Rich., Faun. Bor. Amer., I, 1829, p. 206, pl. 18B.

*Thomomys bulbivorus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 222. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 272. Zoöl. Ser.

**GREAT POCKET GOPHER.**

- 1-5. Adult ♀ Coll. McCoy, Oregon. E. Heller.

6. Adult ♂ Coll. Beaverton, Oregon. E. Heller.  
 7-12. Adult ♀ Coll. Beaverton, Oregon. E. Heller.

Subgenus B. *Thomomys*.

**533. *Thomomys leucodon* Merriam.**

- Thomomys leucodon* Merr., Proc. Biol. Soc. Wash., XI, 1897, p.  
 215. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p.  
 223. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.  
 Indies, F. C. M. Pub., VI, 1905, p. 273. Zool. Ser.

WHITE-TOOTHED POCKET GOPHER.

- 1-4. Adult ♂ Topotypes. Coll. Grant's Pass, Oregon. E. Heller.  
 5-6. Adult ♀ Topotypes. Coll. Grant's Pass, Oregon. E. Heller.

**534. *Thomomys operarius* Merriam.**

- Thomomys operarius* Merr., Proc. Biol. Soc. Wash., XI, 1897, p.  
 215. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p.  
 223. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.  
 Indies, F. C. M. Pub., VI, 1905, p. 273. Zool. Ser.

WORKING POCKET GOPHER.

- 1-8. Adult ♂ Topotypes. Coll. Keeler, Inyo County, California.  
 E. Heller.  
 9-14. Adult ♀ Topotypes. Coll. Keeler, Inyo County, California.  
 E. Heller.

**535. *Thomomys scapterus* Elliot.**

- Thomomys scapterus* Elliot, Pub. Field Columb. Mus., III, 1903,  
 p. 248. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &  
 W. Indies, F. C. M. Pub., VI, 1905, p. 274. Zool. Ser.

DIGGER POCKET GOPHER.

1. Adult ♂ Type. Coll. Hannopee Cañon, Panamint Moun-  
 tains, California. E. Heller.  
 2-4. Adult ♀ Coll. Coal Kilns, Panamint Mountains, California.  
 E. Heller.  
 5. Juv. ♀ Paratype. Coll. Hannopee Cañon, Panamint Moun-  
 tains, California. E. Heller.

**536. *Thomomys bottæ* (Eydoux & Gervais).**

- Oryctomys bottæ* Eyd. & Gerv., Mag. Zool., VI, 1836, p. 23, pl.  
 XXI, fig. 4 (teeth).

- Thomomys bottæ* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,  
 1901, p. 223, fig. 52. Zool. Ser. *Id.* Check-L. Mamm. N.  
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 274.  
 Zool. Ser.



## BOTTA'S POCKET GOPHER.

- 1-4. Adult ♀ P. Portola, California. W. W. Price.
- 5. Adult ♂ P. Carmel River, California. W. W. Price.
- 6. Adult ♀ Exch. Alhambra, California. Am. Mus. Nat. Hist. N. Y. M. M. Green.
- 7. Adult ♂ P. Nicasio, California. C. K. Worthern.
- 8. Adult ♀ P. Nicasio, California. C. K. Worthern.
- 9. Adult ♂ Coll. Nicasio, California. E. Heller.
- 10. Adult ♂ P. Mendocino, California. F. Stephens.
- 11. Adult ♀ Coll. Mendocino, California. E. Heller.
- 12. Adult ♂ P. Coronado, California. F. Stephens.
- 13. Adult ♂ P. San Diego, California. F. Stephens.
- 14. Adult ♀ P. Bluff Lake, California. F. Stephens.
- 15-16. Adult ♂ P. Palo Alto, California. E. Heller.
- 17. Adult ♀ P. Palo Alto, California. E. Heller.
- 18-19. Adult ♀ Pres. Palo Alto, California. E. Heller.
- 20. Adult ♂ Coll. Point Reyes, California. E. Heller.
- 21-23. Adult ♀ Coll. Point Reyes, California. E. Heller.
- 24-27. Adult ♂ Coll. Petaluma, California. E. Heller.
- 28-29. Adult ♀ Coll. Petaluma, California. E. Heller.
- 30. Adult ♂ P. Santa Cruz, California. A. Forrer.
- 31. Adult ♀ P. Santa Cruz, California. A. Forrer.

537. *Thomomys laticeps* Baird.

- Thomomys laticeps* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 335. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 224. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 274. Zoöl. Ser.

## BROAD-HEADED POCKET GOPHER.

- 1-6. Adult ♂ Topotypes. Coll. Table Bluff, Humboldt Bay, California. E. Heller.
- 7-16. Adult ♀ Topotypes. Coll. Table Bluff, Humboldt Bay, California. E. Heller.
- 17-18. Adult ♂ Coll. Requa, California. E. Heller.
- 19-22. Adult ♀ Coll. Requa, California. E. Heller.
- 23-25. Adult ♂ Coll. Crescent City, California. E. Heller.
- 26-31. Adult ♀ Coll. Crescent City, California. E. Heller.

538. *Thomomys monticola* Allen.

- Thomomys monticolus!* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 48.
- Thomomys monticola* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 225. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 275. Zoöl. Ser.

## MOUNTAIN POCKET GOPHER.

1. Adult ♀ P. Pyramid Peak, California. W. W. Price.
2. Adult ♀ P. Bloods, California. W. W. Price.
3. Adult ♀ P. Big Trees, California. W. W. Price.
4. Juv. ♀ P. Big Trees, California. W. W. Price.
5. Juv. ♀ P. Hermit Valley, California. W. W. Price.
- 6-7. Adult ♂ P. Blue Lake, California. W. W. Price.
- 8-10. Adult ♂ P. Silver Lake, California. W. W. Price.
- 11-13. Adult ♀ P. Silver Lake, California. W. W. Price.
14. Adult ♂ P. Mt. Siegel, Nevada. W. W. Price.
15. Juv. ♀ P. Mt. Siegel, Nevada. W. W. Price.

a. *Thomomys douglasi fuscus* (Merriam).

*Thomomys clusius fuscus* Merr., N. Am. Faun., No. 5, 1891, p. 70.

*Thomomys douglasi fuscus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 226. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 277. Zoöl. Ser.

## SWARTHY POCKET GOPHER.

- 1-4. Adult ♀ P. Nederland, Colorado. R. T. Young.
5. Adult ♂ P. Okanagan, British Columbia, Canada. C. K. Worthen.
- 6-7. Adult ♀ P. Okanagan, British Columbia, Canada. C. K. Worthen.

539. *Thomomys helleri* Elliot.

*Thomomys helleri* Elliot, Pub. Field Columb. Mus., III, 1903, p. 165. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 278. Zoöl. Ser.

## HELLER'S GOPHER.

- 1-3. Adult ♂ Paratypes. Coll. Goldbeach, Oregon. E. Heller.
- 4-10. Adult ♀ Type and paratypes. Coll. Goldbeach, Oregon. E. Heller.

540. *Thomomys talpoides* (Richardson).

*Cricetus talpoides* Rich., Zoöl. Jour., III, 1828, p. 518.

*Geomys borealis* Rich., Rep. Brit. Ass. for 1836, VI, 1837, p. 156.

*Thomomys talpoides* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 227. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 278. Zoöl. Ser.

## RICHARDSON'S POCKET GOPHER.

- 1-3. Adult ♂ P. Canon Ball River, North Dakota. G. K. Cherrie.
- 4-5. Adult ♀ P. Canon Ball River, North Dakota. G. K. Cherrie.

- 6-7. Adult ♀ P. Dickinson, North Dakota. G. K. Cherrie.
- 8. Adult ♀ Coll. Braddock, North Dakota. W. E. Snyder.
- 9. Adult ♂ Coll. Bottineau, North Dakota. W. E. Snyder.
- 10. Adult ♀ Coll. Minot, North Dakota. W. E. Snyder.
- 11-12. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
- 13. Adult ♀ Coll. Jamestown, North Dakota. W. E. Snyder.
- 14-16. Adult ♂ Coll. Minnewaukon, North Dakota. W. E. Snyder.
- 17-24. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.
- 25-26. Adult ♀ P. Red Deer River, Alberta, Canada. G. F. Dippie.

#### 541. *Thomomys melanops* Merriam.

- Thomomys melanops* Merr., Proc. Biol. Soc. Wash., XIII, 1899, p.  
 21. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p.  
 227. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.  
 Indies, F. C. M. Pub., VI, 1905, p. 279. Zoöl. Ser.

#### BLACK-FACED POCKET GOPHER.

- 1-2. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 3-4. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 5-7. Adult ♂ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 8. Juv. — Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.

#### 542. *Thomomys fulvus* (Woodhouse).

- Geomys fulvus* Woodh., Proc. Acad. Nat. Scien. Phil., 1852, p. 201.  
*Ascomys umbrinus* Aud. & Bachm., Quad. N. Am., III, 1854, p.  
 307. (nec Richardson.)  
*Thomomys umbrinus* Baird, N. Am. Mamm., 1857, p. 399. (Part.)  
*Thomomys fulvus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,  
 1901, p. 227. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W.  
 Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 334, fig. XLVII. Zoöl.  
 Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C.  
 M. Pub., VI, 1905, p. 280. Zoöl. Ser.

#### FULVOUS POCKET GOPHER.

- 1-5. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 6-12. Adult ♀ P. Fairbank, Arizona. W. W. Price.
- 13. Adult ♀ P. Huaravas Mts., State of Sonora, Mexico.  
 W. W. Price.

14. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.  
 15-16. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.  
 17-18. Adult ♀ P. Graham Mts., Arizona. W. W. Price.  
 19-23. Adult ♀ P. White Mts., Arizona. W. W. Price.  
 24. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.  
 25-40. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.  
 41-45. Adult ♂ P. Chiricahua Mts., Arizona. W. W. Price.  
 46-53. Adult ♀ P. Chiricahua Mts., Arizona. W. W. Price.  
 54-58. Adult ♂ P. Los Angeles, California. J. Rowley.  
 59-63. Adult ♀ P. Los Angeles, California. J. Rowley.  
 64-66. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.  
 67-69. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.  
 70. Juv. ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.  
 71-72. Adult ♀ Coll. Bailey's Ranch, California. E. Heller.  
 73-74. Adult ♂ Coll. Fort Tejon, California. E. Heller.

a. *Thomomys fulvus nigricans* Rhoads.

*Thomomys fulvus nigricans* Rhoads, Proc. Acad. Nat. Scien. Phil., 1895, p. 36. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 228. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 335. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 280. Zoöl. Ser.

BLACKISH POCKET GOPHER.

1. Adult ♂ Topotype. P. Witch Creek, San Diego County, California. F. Stephens.  
 2-3. Adult ♀ Topotypes. P. Witch Creek, San Diego County, California. F. Stephens.

543. \**Thomomys umbrinus* (Richardson).

*Geomys umbrinus* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 202.

RICHARDSON'S SOUTHERN POCKET GOPHER.

- 1-7. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

544. *Thomomys martirensis* (Allen).

*Thomomys fulvus martirensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1898, p. 147.

*Thomomys martirensis* Elliot, Mamm. Middle Amer. & W. Indies,

\*See Bailey, Proc. Biol. Soc. Wash., XIX, 1906, p. 3.



F. C. M. Pub., IV, Pt. 1, 1904, p. 336. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 282. Zoöl. Ser.

**SAN PEDRO MARTIR POCKET GOPHER.**

- 1-5. Adult ♂ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 6-8. Adult ♀ Coll. La Grulla, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
9. Adult ♂ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 10-11. Adult ♀ Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
12. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
- 13-16. Adult ♀ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
17. Adult ♂ Coll. Aguaje de las Frاسas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
18. Adult ♀ Coll. Aguaje de las Frاسas, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 19-20. Adult ♂ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 21-22. Adult ♀ Coll. Santa Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
23. Adult ♀ Coll. Santa Rosa, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
24. Adult ♂ Coll. Mattomi, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 25-27. Adult ♂ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 28-29. Adult ♀ Coll. Parral, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

**545. *Thomomys aphrastus* Elliot.**

*Thomomys aphrastus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 219. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 336. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 282. Zoöl. Ser.

**TROUBLESOME POCKET GOPHER.**

- 1-2. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.

3. Adult ♀ Coll. Ensenada, Lower California, Mexico. E. Heller.
4. Adult ♀ Coll. Trinidad, Lower California, Mexico. E. Heller.
5. Adult ♂ Type. Coll. San Tomas, Lower California, Mexico. E. Heller.
6. Adult ♀ Paratype. Coll. San Tomas, Lower California, Mexico. E. Heller.
- 7-8. Adult ♀ Coll. San Antonio, Lower California, Mexico. E. Heller.
- 9-10. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 11-15. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.

**546. *Thomomys peregrinus* Merriam.**

*Thomomys peregrinus* Merr., Proc. Biol. Soc. Wash., VIII, 1893, p. 146. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 337. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 282. Zoöl. Ser.

**WANDERING POCKET GOPHER.**

- 1-3. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

**547. *Thomomys alpinus* Merriam.**

*Thomomys alpinus* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 216. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 229. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies. F. C. M. Pub., VI, 1905, p. 283. Zoöl. Ser.

**ALPINE POCKET GOPHER.**

1. Adult ♂ Coll. Ramshaw Meadows, Mt. Whitney, California. E. Heller.
- 2-3. Adult ♀ Coll. Ramshaw Meadows, Mt. Whitney, California. E. Heller.
- 4-5. Adult ♂ Coll. Hot Springs, Mt. Whitney, California. E. Heller.
6. Adult ♀ Coll. Hot Springs, Mt. Whitney, California. E. Heller.
7. Adult ♀ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.
- 8-12. Adult ♂ Topotypes. Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.

- 13-17. Adult ♀ Topotypes. Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.

**548. *Thomomys aureus* Allen.**

*Thomomys aureus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 49. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 229. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 285. Zoöl. Ser.

**GOLDEN POCKET GOPHER.**

1. Adult ♀ Topotype. Exch. Bluff City, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

*a. Thomomys aureus perpes* Merriam.

*Thomomys aureus perpes* Merr., Proc. Biol. Soc. Wash., XIV, 1901, p. 111. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 285. Zoöl. Ser.

**LONE PINE POCKET GOPHER.**

1. Adult ♂ Coll. Inyo Mts., California. E. Heller.  
2. Adult ♀ Coll. Coso Mts., California. E. Heller.  
3-6. Adult ♂ Topotypes. Coll. Lone Pine, Owens Valley, Inyo County, California. E. Heller.  
7-17. Adult ♀ Topotypes. Coll. Lone Pine, Owens Valley, Inyo County, California. E. Heller.

**549. *Thomomys perpallidus* (Merriam).**

*Thomomys talpoides perpallidus* Merr., Science, VIII, 1886, p. 588.

*Thomomys perpallidus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 229. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 340. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 286. Zoöl. Ser.

**PALE POCKET GOPHER.**

- 1-6. Adult ♂ Coll. Palm Springs, California. E. Heller.  
7-11. Adult ♀ Coll. Palm Springs, California. E. Heller.  
12. Adult ♂ Coll. Whitewater, California. E. Heller.  
13. Adult ♀ Coll. Warren's Well, California. E. Heller.  
14-15. Adult ♂ Coll. Daggett, California. E. Heller.  
16. Adult ♀ Coll. Morongo Pass, California. E. Heller.  
17. Adult ♀ Coll. Copper City, California. E. Heller.  
18-20. Adult ♂ Coll. Oro Grande, California. E. Heller.  
21-23. Adult ♀ Coll. Oro Grande, California. E. Heller.  
24. Adult ♂ P. Carrizo Creek, California. F. Stephens.  
25-26. Adult ♀ P. Carrizo Creek, California. F. Stephens.  
27-29. Adult ♀ P. Salt Creek, California. F. Stephens.

30. Adult ♀ Exch. Borego Springs, California. Am. Mus. Nat. Hist. N. Y.

**550. *Thomomys cabezonæ* Merriam.**

- Thomomys cabezonæ* Merr., Proc. Biol. Soc. Wash., XIV, 1901, p. 110. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 286. Zool. Ser.

**CABEZON POCKET GOPHER.**

1. Adult ♂ Coll. Whitewater, California. E. Heller.  
2-7. Adult ♀ Coll. Whitewater, California. E. Heller.  
8. Adult ♂ Coll. Banning, California. E. Heller.  
9. Adult ♀ Coll. Banning, California. E. Heller.  
10. Juv. ♂ Coll. Banning, California. E. Heller.

Family IX. **Heteromyidae. Kangaroo Rats, Pocket Mice.**

Subfamily I. **Dipodomyinæ.**

Genus 154. **Dipodomys. Four-toed Kangaroo Rats.**

**Dipodomys** Gray, Ann. Mag. Nat. Hist., 1st Ser., VII, 1841, p. 521.

-Type *Dipodomys phillipsi* Gray.

*Macrocolus* Wagn., Schreb. Säugth., Suppl., IV, 1844, pl. CCXXXIX. (teeth).

**551. *Dipodomys merriami* Mearns.**

- Dipodomys merriami* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 290. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 232, fig. 53. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 345, fig. XLVIII. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 288. Zool. Ser.

**MERRIAM'S KANGAROO RAT.**

- 1-23. Adult ♂ P. Fairbank, Arizona. W. W. Price.  
24-44. Adult ♀ P. Fairbank, Arizona. W. W. Price.  
45-57. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.  
58-62. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.  
63-68. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.  
69-72. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.  
73. Juv. — P. Fort Lowell, Arizona. W. W. Price.  
74. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.



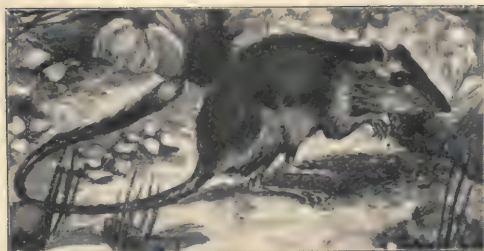


FIG. XXXVI. *DIPODOMYS MERRIAMI*.  
MERRIAM'S KANGAROO RAT.

- 75-77. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.  
78-83. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.  
84-94. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

*a. Dipodomys merriami nitratus* Merriam.

*Dipodomys merriami nitratus* Merr., Proc. Biol. Soc. Wash., ix, 1894, p. 112. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 233. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 288. Zool. Ser.

KEELER KANGAROO RAT.

- 1-4. Adult ♂ Topotypes. Coll. Keeler, Owens Valley, Inyo County, California. E. Heller.  
5-6. Adult ♀ Topotypes. Coll. Keeler, Owens Valley, Inyo County, California. E. Heller.  
7-12. Adult ♂ Coll. Lone Pine, Owens Valley, Inyo County, California. E. Heller.  
13-16. Adult ♀ Coll. Lone Pine, Owens Valley, Inyo County, California. E. Heller.

*b. Dipodomys merriami ambiguus* (Merriam).

*Dipodomys ambiguus* Merr., N. Am. Faun., No. 4, 1890, p. 42.

*Dipodomys merriami ambiguus* Elliot Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 234. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 346. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 289. Zool. Ser.

DOUBTFUL KANGAROO RAT.

- 1-6. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

7-16. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

c. *Dipodomys merriami parvus* (Rhoads).

\* *Dipodomys parvus* Rhoads, Amer. Nat., xxviii, 1894, p. 70.

*Dipodomys merriami parvus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 234. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 346. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 289. Zoöl. Ser.

SMALL KANGAROO RAT.

1. Adult ♀ P. Elsinore, Riverside County, California. J. Rowley.

2. Adult ♀ P. Aguanga, Riverside County, California. F. Stephens.

d. *Dipodomys merriami simiolus* (Rhoads).

*Dipodomys simiolus* Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p. 410.

*Dipodomys similis* Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p. 411.

*Dipodomys merriami simiolus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 234. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 347. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 289. Zoöl. Ser.

*Dipodomys merriami similis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 234. Zoöl. Ser.

ALLIED KANGAROO RAT.

1-12. Adult ♂ Coll. Palm Springs, California. E. Heller.

13-20. Adult ♀ Coll. Palm Springs, California. E. Heller.

21-26. Adult ♂ Coll. Whitewater, California. E. Heller.

27-32. Adult ♀ Coll. Whitewater, California. E. Heller.

33-35. Adult ♂ Coll. Burn's Cañon, California. E. Heller.

36. Adult ♀ Coll. Burn's Cañon, California. E. Heller.

37-41. Adult ♂ Coll. Morongo Pass, California. E. Heller.

42-43. Adult ♀ Coll. Morongo Pass, California. E. Heller.

44-45. Adult ♂ Coll. Oro Grande, California. E. Heller.

46. Adult ♂ Coll. Old Woman's Spring, California. E. Heller.

47-48. Adult ♀ Coll. Old Woman's Spring, California. E. Heller.

49. Adult ♂ Coll. Warren's Well, California. E. Heller.

50-51. Adult ♂ Coll. Daggett, California. E. Heller.

52-55. Adult ♀ Coll. Daggett, California. E. Heller.

56. Adult ♂ P. Borego Springs, California. F. Stephens.

57. Adult ♀ P. Borego Springs, California. F. Stephens.  
 58. Adult ♂ P. Carriso Creek, California. F. Stephens.  
 59-60. Adult ♀ P. Carriso Creek, California. F. Stephens.

*e. Dipodomys merriami mortivallis* Elliot.

*Dipodomys merriami mortivallis* Elliot, Pub. Field Columb. Mus.,  
 III, 1903, p. 250. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 290. Zoöl. Ser.

DEATH VALLEY KANGAROO RAT.

1. Adult ♂ Coll. Ballarat, Inyo County, California. E. Heller.
2. Adult ♀ Coll. Mesquite Valley, Inyo County, California. E. Heller.
- 3-6. Adult ♂ Type and paratypes. Coll. Furnace Creek, Death Valley, California. E. Heller.
7. Adult ♀ Paratype. Coll. Furnace Creek, Death Valley, California. E. Heller.

*f. Dipodomys merriami arenivagus* Elliot.

*Dipodomys merriami arenivagus* Elliot, Pub. Field Columb. Mus.,  
 III, 1903, p. 249. Zoöl. Ser. *Id.* Mamm. Middle Amer. &  
 W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 347. Zoöl. Ser.  
*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.  
 Pub., VI, 1905, p. 290. Zoöl. Ser.

SAN FELIPE KANGAROO RAT.

- 1-4. Adult ♂ Type and paratypes. Coll. San Felipe, Lower California, Mexico. E. Heller.
- 5-9. Adult ♀ Paratypes. Coll. San Felipe, Lower California, Mexico. E. Heller.
10. Adult ♂ Coll. Cañon Esperanza, Lower California, Mexico. E. Heller.

**552. *Dipodomys californicus* Merriam.**

*Dipodomys californicus* Merr., N. Am. Faun., No. 4, 1890, p. 49.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 236.  
 Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. In-  
 dies, F. C. M. Pub., VI, 1905, p. 291. Zoöl. Ser.

CALIFORNIA KANGAROO RAT.

- 1-4. Adult ♂ P. Nicasio, California. C. A. Allen.
- 5-8. Adult ♀ P. Nicasio, California. C. A. Allen.
- 9-10. Adult ♂ P. San Luis Rey, San Diego County, California. A. Forrer.
11. Adult ♀ P. San Luis Rey, San Diego County, California. A. Forrer.



**553. *Dipodomys deserti* Stephens.**

- Dipodomys deserti* Stephens, Amer. Nat., **xxi**, 1887, p. 42.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., **ii**, 1901, p. 235.  
 Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.  
 Pub., **iv**, Pt. 1, 1904, p. 345. Zoöl. Ser. *Id.* Check-L. Mamm.  
 N. Amer. Cont. & W. Indies, F. C. M. Pub., **vi**, 1905, p. 292.  
 Zoöl. Ser.

**DESERT KANGAROO RAT.**

- 1-4. Adult ♂ Exch. Borego Springs, Colorado Desert, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.  
 5. Adult ♀ Exch. San Diego County, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.  
 6-8. Adult ♂ Coll. Palm Springs, California. E. Heller.  
 9. Adult ♀ Coll. Palm Springs, California. E. Heller.  
 10-21. Adult ♂ Coll. Daggett, California. E. Heller.  
 22-36. Adult ♀ Coll. Daggett, California. E. Heller.  
 37-41. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.  
 42-47. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.  
 48-49. Adult ♂ Coll. Ballarat, Inyo County, California. E. Heller.  
 50. Adult ♀ Coll. Ballarat, Inyo County, California. E. Heller.  
 51-55. Adult ♂ Coll. Furnace Creek, Death Valley, California. E. Heller.  
 56-57. Adult ♀ Coll. Furnace Creek, Death Valley, California. E. Heller.

**a. *Dipodomys deserti helleri* Elliot.**

- Dipodomys deserti helleri* Elliot, Pub. Field Columb. Mus., **iii**, 1903, p. 249. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., **vi**, 1905, p. 292. Zoöl. Ser.

**HELLER'S KANGAROO RAT.**

- 1-5. Adult ♂ Type and paratypes. Coll. Keeler, Inyo County, California. E. Heller.  
 6. Adult ♀ Paratype. Coll. Keeler, Inyo County, California. E. Heller.

**554. *Dipodomys spectabilis* Merriam.**

- Dipodomys spectabilis* Merr., N. Am. Faun., No. 4, 1890, p. 46.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., **ii**, 1901, p. 235.  
 Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.



Pub., IV, Pt. I, 1904, p. 345. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 293. Zoöl. Ser.

#### NOTABLE KANGAROO RAT.

- 1-2. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
3. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.
- 4-8. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 9-13. Adult ♀ P. Fairbank, Arizona. W. W. Price.
- 14-22. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 23-27. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 28-29. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.

#### Genus 155. *Perodipus*. Five-toed Kangaroo Rats.

*Perodipus* Fitzin., Sitz. Math.-Natur. Classe K. Akad. Wiss. Wien, LVI, 1867, p. 126. Type *Dipodomys agilis* Gambel.

*Dipodops* Merr., N. Am. Faun., No. 3; 1890, p. 72.

#### 555. *Perodipus agilis* (Gambel).

*Dipodomys agilis* Gambel, Proc. Acad. Nat. Scien. Phil., 1848, p. 77.

*Dipodomys hermanni* Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p. 224.

?*Dipodomys wagneri* Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p. 224.

*Perodipus agilis* Eliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 236, fig. 54. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 351. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 293. Zoöl. Ser.

#### NIMBLE KANGAROO RAT.

- 1-4. Adult ♂ P. Riverside, California. E. Heller.
- 5-9. Adult ♀ P. Riverside, California. E. Heller.
- 10-11. Adult ♂ P. Jamul, California. E. Heller.
- 12-13. Adult ♂ Exch. San Luis Rey, California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
14. Adult ♂ Exch. Jacumba, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.

15. Adult ♂ Exch. Santa Isabella, California. Am. Mus Nat. Hist. N. Y. F. Stephens.
16. Adult ♀ Exch. San Pasqual Valley, California. Am Mus. Nat. Hist. N. Y. C. H. Marsh.
17. Adult ♀ P. Dulzura, California. J. Rowley.
18. Adult ♂ Coll. Elsinore, California. E. Heller.
19. Adult ♀ Coll. Sorrento, California. E. Heller.
20. Adult ♂ Coll. Banning, California. E. Heller.
- 21-24. Adult ♂ Coll. Castac Lake, Fort Tejon, California. E Heller.
- 25-28. Adult ♀ Coll. Castac Lake, Fort Tejon, California. E. Heller.
29. Adult ♂ Coll. Piru Creek, Fort Tejon, California. E. Heller.
30. Adult ♀ Coll. Piru Creek, Fort Tejon, California. E Heller.
31. Adult ♂ Coll. Lockwood Valley, Mt. Pinos, California E. Heller.
- 32-34. Adult ♀ Coll. Lockwood Valley, Mt. Pinos, California E. Heller.
- 35-42. Adult ♂ Coll. Santa Eulalia, Lower California, Mexico E. Heller.
- 43-52. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico E. Heller.
53. Adult ♂ Coll. San Matias Spring, Lower California Mexico. E. Heller.
54. Adult ♀ Coll. San Matias Spring, Lower California Mexico. E. Heller.
55. Adult ♂ Coll. Las Eucinas, Lower California, Mexico. E Heller.
- 56-59. Adult ♂ Coll. San Tomas, Lower California, Mexico. E Heller.
60. Adult ♀ Coll. San Tomas, Lower California, Mexico. E Heller.
- 61-63. Adult ♂ Coll. Rosarito, Lower California, Mexico. E Heller.
- 64-66. Adult ♀ Coll. Rosarito, Lower California, Mexico. E Heller.
67. Adult ♂ Coll. Agua Escondido, Lower California, Mexico E. Heller.
- 68-71. Adult ♂ Coll. San Quentin, Lower California, Mexico E. Heller.

- 72-73. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.
74. Adult ♂ Coll. El Alamo, Lower California, Mexico. E. Heller.
75. Adult ♀ Coll. El Alamo, Lower California, Mexico. E. Heller.
76. Adult ♀ Coll. Santa Rosa, Lower California, Mexico. E. Heller.
77. Adult ♂ Coll. Head of San Antonio River, Lower California, Mexico. E. Heller.
- 78-79. Adult ♀ Coll. Head of San Antonio River, Lower California, Mexico. E. Heller.
- 80-82. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.
- 83-87. Adult ♀ Coll. Ensenada, Lower California, Mexico. E. Heller.
- 88-89. Adult ♂ Coll. Trinidad, Lower California, Mexico. E. Heller.
90. Adult ♀ Coll. Trinidad, Lower California, Mexico. E. Heller.

#### 556. *Perodipus streator* Merriam.

- Perodipus streator* Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 113. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 237. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 294. Zoöl. Ser.

#### STREATOR'S KANGAROO RAT.

- 1-4. Adult ♂ Coll. Fort Tejon, California. E. Heller.
5. Adult ♀ Coll. Fort Tejon, California. E. Heller.
- 6-8. Adult ♂ Coll. Neenach, Los Angeles County, California. E. Heller.
- 9-10. Adult ♀ Coll. Neenach, Los Angeles County, California. E. Heller.

#### 557. *Perodipus panamintinus* Merriam.

- Perodipus panamintinus* Merr., Proc. Biol. Soc. Wash., IX, 1894, p. 114. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 239. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 295. Zoöl. Ser.

#### PANAMINT KANGAROO RAT.

- 1-11. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.
- 12-18. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.



**558. *Perodipus richardsoni* (Allen).**

*Dipodops richardsoni* Allen, Bull. Am. Mus. Nat. Hist. N. Y.,  
1891, p. 277.

*Perodipus richardsoni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
II, 1901, p. 238. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 297. Zoöl.  
Ser.

**RICHARDSON'S KANGAROO RAT.**

- 1-2. Adult ♂ Exch. Perch, Nebraska. Am. Mus. Nat. Hist.  
N. Y. W. W. Granger.
3. Adult ♂ Paratype. Exch. Beaver River, Indian Terri-  
tory Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 4-5. Adult ♂ Coll. Coolidge, Kansas. T. Surber.
- 6-20. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.
- 21-35. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.

**559. *Perodipus chapmani* (Mearns).**

*Dipodomys chapmani* Mearns, Bull. Am. Mus. Nat. Hist. N. Y.,  
1890, p. 291.

*Perodipus chapmani* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
II, 1901, p. 237. Zoöl. Ser. *Id.* Mamm. Middle Amer. &  
W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 350, fig. 66. Zoöl.  
Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F.  
C. M. Pub., VI, 1905, p. 297. Zoöl. Ser.

**CHAPMAN'S KANGAROO RAT.**

- 1-5. Adult ♂ P. Fairbank, Arizona. Price & Condit.
6. Adult ♀ P. Fairbank, Arizona. Price & Condit.

**560. *Perodipus longipes* (Merriam).**

*Dipodops longipes* Merr., N. Am. Faun., No. 3, 1890, p. 72.

*Perodipus longipes* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
II, 1901, p. 239. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 298. Zoöl.  
Ser.

**LONG-FOOTED KANGAROO RAT.**

1. Adult ♂ Exch. Bitter Creek, Wyoming. Am. Mus. Nat.  
Hist. N. Y. W. W. Granger.
- 2-3. Adult ♀ Exch. Bitter Creek, Wyoming. Am. Mus. Nat.  
Hist. N. Y. W. W. Granger.
- 4-5. Adult ♂ Exch. Uncompaghre Indian Reservation, Utah.  
Am. Mus. Nat. Hist. N. Y. W. W. Granger.



Subfamily II. **Heteromyinae.**Genus 156. **Perognathus. Pocket Mice.**

**Perognathus** Max., Reise Innere N. Amer., 1, 1839, pp. 449-450.

Type *Perognathus fasciatus* Maximilian.

*Cricetodipus* Peale, Mamm. & Ornith. U. S. Expl. Exped., 1848, p. 53, pl. 13, fig. 2.

*Abromys* (sic) Gray, Proc. Zool. Soc., 1868, p. 202.

*Otognosis* Coues, Proc. Acad. Nat. Scien. Phil., 1875, p. 305.

*Chætodipus* Merr., N. Am. Faun., No. 1, 1889, p. 5, pl. III, fig. 15.

Subgenus A. **Peragnathus.****561. Perognathus fasciatus Maximilian.**

*Perognathus fasciatus* Max., Nov. Act. Acad. Cæs. Leop.-Carol., xix, Pt. 1, 1839, p. 369, pl. xxxiv. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 242. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 300. Zool. Ser.

**MAXIMILIAN'S POCKET MOUSE.**

1. Adult ♂ Exch. Perch, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
2. Adult ♀ Exch. Pine Ridge, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

**562. Perognathus merriami Allen.**

*Cricetodipus flavus* Thomas, Proc. Zool. Soc., 1888, p. 449. (nec Baird.)

*Perognathus merriami* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1892, p. 45, pl. III, figs. 1-6. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 243. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 353, figs. 67, XLIX. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 301. Zool. Ser.

*Perognathus mearnsi* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1896, p. 237.

**MERRIAM'S POCKET MOUSE.**

1. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
2. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

- 3-4. Adult ♀ Topotypes. Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. F. B. Armstrong.

**563. *Perognathus flavus* Baird.**

*Perognathus flavus* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 332. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 244, fig. 56. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 354. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 302. Zoöl. Ser.

BAIRD'S POCKET MOUSE.

- 1-2. Adult ♀ P. Fairbank, Arizona. W. W. Price.  
3. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.  
4. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.  
5. Adult ♂ P. Chiricahua Mountains, Arizona. W. W. Price.

*a. Perognathus flavus bimaculatus* (Merriam).

*Perognathus bimaculatus* Merr., N. Am. Faun., No. 1, 1889, p. 12.  
*Perognathus apache* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p. 71. (Part.)  
*Perognathus flavus bimaculatus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 244. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 302. Zoöl. Ser.

YAVAPAI POCKET MOUSE.

- 1-3. Adult ♀ Exch. Riverview, Utah. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.  
4-7. Adult ♂ P. Holbrook, Arizona. W. W. Price.  
8. Adult ♀ P. Holbrook, Arizona. W. W. Price.

**564. *Perognathus apache* Merriam.**

*Perognathus apache* Merr., N. Am. Faun., No. 1, 1889, p. 14. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 244. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 303. Zoöl. Ser.

APACHE POCKET MOUSE.

1. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.

**565. *Perognathus pericalles* Elliot.**

*Perognathus pericalles* Elliot, Pub. Field Columb. Mus., III, 1903, p. 252. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 303. Zoöl. Ser.

## BEAUTIFUL POCKET MOUSE.

1. Adult ♂ Type. Coll. Keeler, Owens Valley, Inyo County, California. E. Heller.
2. Adult ♀ Paratype. Coll. Keeler, Owens Valley, Inyo County, California. E. Heller.

566. *Perognathus elibatus* Elliot.

*Perognathus elibatus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 252. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 304. Zoöl. Ser.

## MOUNT PINOS POCKET MOUSE.

- 1-7. Adult ♂ Type and paratypes. Coll. Mount Pinos, Ventura County, California. E. Heller.
- 8-9. Adult ♀ Paratypes. Coll. Mount Pinos, Ventura County, California. E. Heller.

567. *Perognathus panamintinus* (Merriam).

*Perognathus longimembris panamintinus* Merr., Proc. Acad. Nat. Scien. Phil., 1894, p. 265.

*Perognathus panamintinus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 245. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 304. Zoöl. Ser.

## PANAMINT MOUNTAINS POCKET MOUSE.

- 1-7. Adult ♂ Coll. Wild Rose Springs, Panamint Mountains, California. E. Heller.
- 8-10. Adult ♀ Coll. Wild Rose Springs, Panamint Mountains, California. E. Heller.

a. *Perognathus panamintinus bangsi* (Mearns).

*Perognathus longimembris bangsi* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1898, p. 300.

*Perognathus panamintinus bangsi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 245. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 305. Zoöl. Ser.

## BANGS'S POCKET MOUSE.

1. Adult ♀ Coll. Piru Creek, California. E. Heller.
2. Adult ♀ Coll. Fort Tejon, California. E. Heller.
- 3-12. Adult ♂ Coll. Oro Grande, California. E. Heller.
- 13-16. Adult ♂ Coll. Daggett, California. E. Heller.
17. Adult ♀ Coll. Daggett, California. E. Heller.
- 18-25. Adult ♂ Coll. Lane's Mills, California. E. Heller.
- 26-37. Adult ♂ Coll. Copper City, California. E. Heller.



38. Adult ♀ Coll. Copper City, California. E. Heller.  
 39-43. Adult ♂ Coll. Ballarat, California. E. Heller.

*b. Perognathus panamintinus brevinasus* Osgood.

*Perognathus panamintinus brevinasus* Osgood, N. Am. Faun., No. 18, 1900, p. 30. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 246. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 355. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 305. Zoöl. Ser.

SHORT-NOSED POCKET MOUSE.

1. Adult ♀ Exch. Jacumba, California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.

**568. *Perognathus longimembris* (Coues).**

*Otognosis longimembris* Coues, Proc. Acad. Nat. Scien. Phil., 1875, p. 305.

*Cricetodipus parvus* True, Proc. U. S. Nat. Mus., 1882, p. 474.

*Perognathus inornatus* Merr., N. Am. Faun., No. 1, 1889, p. 15.

*Perognathus longimembris* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 247. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 306. Zoöl. Ser.

SAN JOAQUIN POCKET MOUSE.

- 1-8. Adult ♂ Topotypes. Coll. Fort Tejon, California. E. Heller.  
 9-16. Adult ♀ Topotypes. Coll. Fort Tejon, California. E. Heller.

*a. Perognathus monticola olivaceus* (Merriam).

*Perognathus olivaceus* Merr., N. Am. Faun., No. 1, 1889, p. 15.

*Perognathus olivaceus amœnus* Merr., N. Am. Faun., No. 1, 1889, p. 16.

*Perognathus monticola olivaceus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 249. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 307. Zoöl. Ser.

GREAT BASIN POCKET MOUSE.

1. Adult ♀ P. Mt. Siegel, Nevada. W. W. Price.  
 2-5. Adult ♂ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.  
 6-7. Adult ♀ Coll. Inyo Mountains, summits E. of Lone Pine, California. E. Heller.



**569. *Perognathus lordi* (Gray).**

*Abromys* (sic) *lordi* Gray, Proc. Zool. Soc., 1868, p. 202.

*Perognathus lordi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
 II, 1901, p. 250. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 308. Zool. Ser.

**NORTHWEST POCKET MOUSE.**

1. Adult ♂ P. Okanagan, British Columbia, Canada. C. K. Worthen.
2. Adult ♀ P. Okanagan, British Columbia, Canada. C. K. Worthen.

**570. *Perognathus formosus* Merriam.**

*Perognathus formosus* Merr., N. Am. Faun., No. 1, 1889, p. 17.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 250.  
 Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.  
 Indies, F. C. M. Pub., VI, 1905, p. 308. Zool. Ser.

**LONG-TAILED POCKET MOUSE.**

- 1-2. Adult ♂ Coll. Morongo Pass, California. E. Heller.
- 3-5. Adult ♂ Coll. Victor, California. E. Heller.
- 6-11. Adult ♂ Coll. Old Woman's Spring, California. E. Heller.
12. Adult ♀ Coll. Old Woman's Spring, California. E. Heller.
- 13-19. Adult ♂ Coll. Oro Grande, California. E. Heller.
- 20-22. Adult ♀ Coll. Oro Grande, California. E. Heller.
- 23-30. Adult ♂ Coll. Daggett, California. E. Heller.
- 31-32. Adult ♀ Coll. Daggett, California. E. Heller.
- 33-38. Adult ♂ Coll. Lone Willow Springs, California. E. Heller.
- 39-40. Adult ♀ Coll. Lone Willow Springs, California. E. Heller.
41. Adult ♂ Coll. Copper City, California. E. Heller.
42. Adult ♂ Coll. Ballarat, California. E. Heller.
- 43-46. Adult ♂ Coll. Wild Rose Springs, California. E. Heller.
- 47-52. Adult ♀ Coll. Wild Rose Springs, California. E. Heller.
- 53-54. Adult ♂ Coll. Hannonpee Cañon, California. E. Heller.
55. Adult ♀ Coll. Hannonpee Cañon, California. E. Heller.
- 56-64. Adult ♂ Coll. Furnace Creek, Death Valley, California.  
 E. Heller.
- 65-68. Adult ♀ Coll. Furnace Creek, Death Valley, California.  
 E. Heller.

**571. *Perognathus mesembrinus* Elliot.**

*Perognathus mesembrinus* Elliot, Pub. Field Columb. Mus., III,  
 1903, p. 251. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 308. Zool.  
 Ser.

## SOUTHERN POCKET MOUSE.

- 1-12. Adult ♂ Type and paratypes. Coll. Palm Springs, California. E. Heller.  
 13. Adult ♀ Paratype. Coll. Palm Springs, California. E. Heller.

Subgenus B. *Chaetodipus*.a. *Perognathus baileyi rhydinorhis* Elliot.

- Perognathus baileyi rhydinorhis* Elliot, Pub. Field Columb. Mus., III, 1903, p. 167. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 362. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 309. Zoöl. Ser.

## SAN QUENTIN POCKET MOUSE.

- 1-2. Adult ♂ Coll. Juncolito Springs, San Pedro Martir Mts., Lower California, Mexico. E. Heller.  
 3. Adult ♀ Coll. Juncolito Springs, San Pedro Martir Mts., Lower California, Mexico. E. Heller.  
 4. Adult ♂ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.  
 5-12. Adult ♂ Type and paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.  
 13-14. Adult ♀ Paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.

572. *Perognathus cnecus* Elliot.

- Perognathus cnecus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 169. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 362. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 309. Zoöl. Ser.

## BUFF-COLORED POCKET MOUSE.

1. Adult ♂ Type. Coll. Rosarito, Lower California, Mexico. E. Heller.

573. *Perognathus hispidus* Baird.

- Perognathus fasciatus* Baird, N. Amer. Mamm., 1857, p. 420. (nec Max.)

- Perognathus hispidus* Baird, N. Amer. Mamm., 1857, p. 421. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 251. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 360. Zoöl. Ser. *Id.* Check-L. Mamm.

N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 309.  
Zoöl. Ser.

*Perognathus paradoxus spilotos* Merr., N. Am. Faun., No. 1, 1889,  
p. 25.

#### HISPID POCKET MOUSE.

1. Adult ♂ Exch. Brownsville, Texas. Am. Mus. Nat. Hist.  
N. Y. F. B. Armstrong.

2-3. Adult ♂ P. Brownsville, Texas. C. K. Worthern.

4-5. Adult ♀ P. Brownsville, Texas. C. K. Worthern.

#### a. *Perognathus hispidus paradoxus* (Merriam).

*Perognathus paradoxus* Merr., N. Am. Faun., No. 1, 1889, p. 24.

*Perognathus latirostris* Rhoads, Amer. Nat., xxviii, 1894, p. 185.

*Perognathus conditi* Allen, Bull. Am. Mus. Nat. Hist. N. Y.,  
1894, p. 318.

*Perognathus hispidus paradoxus* Elliot, Syn. N. Am. Mamm., F.  
C. M. Pub., II, 1901, p. 252. Zoöl. Ser. *Id.* Mamm. Middle  
Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 361. Zoöl.  
Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F.  
C. M. Pub., VI, 1905, p. 310. Zoöl. Ser.

#### KANSAS POCKET MOUSE.

1-3. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist.  
N. Y. H. P. Attwater.

4-6. Adult ♀ Exch. Rockport, Texas. Am. Mus. Nat. Hist.  
N. Y. H. P. Attwater.

7. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist.  
N. Y. H. P. Attwater.

8. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist.  
N. Y. H. P. Attwater.

9. Adult ♂ Exch. Pine Ridge, South Dakota. Am. Mus. Nat.  
Hist. N. Y. W. W. Granger.

#### b. *Perognathus hispidus maximus* Elliot.

*Perognathus hispidus maximus* Elliot, Pub. Field Columb. Mus.,  
III, 1903, p. 253. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 310. Zoöl.  
Ser.

#### GREAT POCKET MOUSE.

1-3. Adult ♂ Type and paratypes. Coll. Noble, Oklahoma  
Territory. T. Surber.

4-5. Adult ♀ Paratypes. Coll. Noble, Oklahoma Territory.  
T. Surber.

6. Juv. ♂ Paratype. Coll. Noble, Oklahoma Territory.  
T. Surber.



- 7-12. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.
- 13-16. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.
- 17. Adult ♂ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 18. Adult ♀ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 19. Juv. ♂ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
- 20. Adult ♂ Coll. Arnettville, Oklahoma Territory. T. Surber.
- 21. Adult ♀ Coll. Arnettville, Oklahoma Territory. T. Surber.

**574. *Perognathus penicillatus* Woodhouse.**

*Perognathus penicillatus* Woodh., Proc. Acad. Nat. Scien. Phil., 1852, p. 200. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 252. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 311. Zool. Ser.

**DESERT POCKET MOUSE.**

- 1. Adult ♂ Exch. Walters, Colorado Desert, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.
- 2. Adult ♂ Exch. Gardner's Lagoon, Lower California, Mexico. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
- 3. Adult ♀ Exch. Salt Creek, Colorado Desert, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.
- 4. Adult ♀ Exch. Carriso Creek, Colorado Desert, California. Am. Mus. Nat. Hist. N. Y. F. Stephens.
- 5-8. Adult ♂ Coll. Palm Springs, California. E. Heller.
- 9-12. Adult ♂ Coll. Whitewater, California. E. Heller.
- 13-14. Adult ♂ Coll. Morongo Pass, California. E. Heller.
- 15-16. Adult ♂ Coll. Oro Grande, California. E. Heller.
- 17-18. Adult ♀ Coll. Oro Grande, California. E. Heller.
- 19. Adult ♂ Coll. Daggett, California. E. Heller.

*a. Perognathus penicillatus angustirostris* Osgood.

*Perognathus penicillatus angustirostris* Osgood, N. Am. Faun., No. 18, 1900, p. 47. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 252. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 358. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 311. Zool. Ser.

**SLENDER-NOSED POCKET MOUSE.**

- 1. Adult ♂ P. Palmetto Springs, California. F. Stephens.



- 2-3. Adult ♀ P. Vallecitos, California. F. Stephens.
- 4. Adult — P. Vallecitos, California. F. Stephens.
- 5. Adult ♂ P. New River, California. F. Stephens.
- 6. Adult ♀ P. New River, California. F. Stephens.
- 7. Adult ♂ Coll. Buena Vista Camp, Lower California, Mexico. E. Heller.
- 8-16. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.
- 17-18. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.

*b. Perognathus penicillatus pricei* (Allen).

*Perognathus pricei* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 318.

*Perognathus obscurus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 216. (nec Merr.)

*Perognathus penicillatus pricei* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 253. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 358. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 311. Zoöl. Ser.

PRICE'S POCKET MOUSE.

- 1-20. Adult ♂ P. Fairbank, Arizona. W. W. Price.
- 21-25. Adult ♀ P. Fairbank, Arizona. W. W. Price.
- 26-38. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.
- 39-46. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.
- 47-65. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
- 66-67. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.
- 68-69. Adult ♂ P. Wilcox, Arizona. W. W. Price.
- 70-72. Adult ♀ P. Wilcox, Arizona. W. W. Price.
- 73-78. Adult ♂ Topotypes. P. Oposura, State of Sonora, Mexico. B. C. Condit.
- 79-80. Adult ♀ Topotypes. P. Oposura, State of Sonora, Mexico. B. C. Condit.
- 81-83. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. B. C. Condit.
- 84-85. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. B. C. Condit.
- 86-96. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 97-104. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.

c. *Perognathus penicillatus arenarius* (Merriam).

*Perognathus arenarius* Merr., Proc. Cal. Acad. Scien., 2d Ser., IV, 1894, p. 461.

*Perognathus penicillatus arenarius* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 358. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 312. Zoöl. Ser.

LITTLE DESERT POCKET MOUSE.

1-14. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.

15-21. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.

575. *Perognathus helleri* Elliot.

*Perognathus helleri* Elliot, Pub. Field Columb. Mus., III, 1903, p. 166. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 360. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 312. Zoöl. Ser.

HELLER'S POCKET MOUSE.

1-11. Adult ♂ Type and paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.

12-19. Adult ♀ Paratypes. Coll. San Quentin, Lower California, Mexico. E. Heller.

576. *Perognathus stephensi* Merriam.

*Perognathus stephensi* Merr., Proc. Acad. Nat. Scien. Phil., 1894, p. 267. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 253. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 312. Zoöl. Ser.

STEPHENS'S POCKET MOUSE.

1. Adult ♂ Topotype. Coll. Mesquite Valley, Death Valley, California. E. Heller.

2-3. Adult ♀ Topotypes. Coll. Mesquite Valley, Death Valley, California. E. Heller.

577. *Perognathus fallax* Merriam.

*Perognathus fallax* Merr., N. Am. Faun., No. 1, 1889, p. 19. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 254. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 366. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 314. Zoöl. Ser.

SHORT-EARED CALIFORNIA POCKET MOUSE.

1. Adult ♂ P. Elsinore, California. J. Rowley.

2. Adult ♂ P. San Diego, California. F. Stephens.
3. Adult ♀ P. Ocean Beach, San Diego, California. F. Stephens.
- 4-14. Adult ♂ Coll. San Antonio, Lower California, Mexico. E. Heller.
- 15-23. Adult ♀ Coll. San Antonio, Lower California, Mexico. E. Heller.
24. Adult ♂ Coll. Trinidad, Lower California, Mexico. E. Heller.
25. Adult ♂ Coll. San Matias Spring, Lower California, Mexico. E. Heller.
- 26-30. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller.
31. Adult ♂ Coll. Juncolito Spring, Lower California, Mexico. E. Heller.
32. Adult ♂ Coll. Head of San Antonio River, Lower California, Mexico. E. Heller.
- 33-37. Adult ♂ Coll. Rosarito, Lower California, Mexico. E. Heller.
- 38-43. Adult ♀ Coll. Rosarito, Lower California, Mexico. E. Heller.
44. Adult ♀ Coll. Mattomi, Lower California, Mexico. E. Heller.
45. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
46. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.

*a. Perognathus fallax pallidus* Mearns.

*Perognathus fallax pallidus* Mearns, Proc. Biol. Soc. Wash., xiv, 1901, p. 135. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 366. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 314. Zool. Ser.

PALLID POCKET MOUSE.

1. Adult ♂ Coll. Whitewater, California. E. Heller.
- 2-4. Adult ♂ Coll. Morongo Pass, California. E. Heller.
5. Adult ♂ Coll. Warren's Well, California. E. Heller.
- 6-7. Adult ♂ Coll. Oro Grande, California. E. Heller.
8. Adult ♂ Coll. Victor, California. E. Heller.
9. Adult ♀ Exch. Mountain Spring, California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.

10. Adult ♂ Coll. San Matias Spring, Lower California, Mexico. E. Heller.

**578. *Perognathus femoralis* Allen.**

*Perognathus femoralis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 281. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 254. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., 14, Pt. 1, 1904, p. 367. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 314. Zool. Ser.

**GREAT CALIFORNIA POCKET MOUSE.**

1. Adult ♂ Exch. Dulzura, California. Am. Mus. Nat. Hist. N. Y. C. H. Marsh.
2. Adult ♂ Exch. Santa Ysabel, California. Am. Mus. Nat. Hist. N. Y. C. H. Marsh.
3. Adult ♀ P. San Ygnacio Valley, California. C. K. Worthern.
4. Adult ♂ P. Santee, San Diego County, California. F. Stephens.
- 5-6. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
7. Adult ♀ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
8. Adult ♂ P. San Diego, California. F. Stephens.

*a. Perognathus femoralis mesopolius* Elliot.

*Perognathus femoralis mesopolius* Elliot, Pub. Field Columb. Mus., III, 1903, p. 168. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., 14, Pt. 1, 1904, p. 367, fig. 68. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 315. Zool. Ser.

**GRAY POCKET MOUSE.**

- 1-2. Adult ♀ Type and paratype. Coll. Piñon, Lower California, Mexico. E. Heller.
- 3-4. Adult ♂ Coll. Santa Rosa, Lower California, Mexico. E. Heller.
- 5-6. Adult ♀ Coll. Santa Rosa, Lower California, Mexico. E. Heller.
- 7-8. Adult ♂ Coll. Agua de las Fresas, Lower California, Mexico. E. Heller.
- 9-10. Adult ♀ Coll. Agua de las Fresas, Lower California, Mexico. E. Heller.
11. Adult ♂ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.



12. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
13. Adult ♂ Coll. Agua Escondido, Lower California, Mexico. E. Heller.

### 579. *Perognathus californicus* Merriam.

*Perognathus californicus* Merr., N. Am. Faun., No. 1, 1889, p. 26. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 254. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 315. Zoöl. Ser.

#### CALIFORNIA POCKET MOUSE.

1. Adult ♂ P. Portola, California. W. W. Price.
2. Adult ♀ P. Portola, California. W. W. Price.

#### a. *Perognathus californicus dispar* Osgood.

*Perognathus californicus dispar* Osgood, N. Am. Faun., No. 18, 1900, p. 58. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 255. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 315. Zoöl. Ser.

#### ALLEN'S POCKET MOUSE.

- 1-2. Adult ♂ Coll. Fort Tejon, California. E. Heller.
3. Adult ♂ Coll. Piru Creek, California. E. Heller.
- 4-5. Adult ♀ Coll. Hot Springs, Mt. Whitney, California. E. Heller.

### 580. *Perognathus spinatus* Merriam.

*Perognathus spinatus* Merr., N. Am. Faun., No. 1, 1889, p. 21. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 255. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 363. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 315. Zoöl. Ser.

#### SPINY POCKET MOUSE.

1. Adult ♂ P. Vallecitos, San Diego County, California. F. Stephens.
2. Adult ♂ P. San Felipe Cañon, California. F. Stephens.
- 3-4. Adult ♀ P. San Felipe Cañon, California. F. Stephens.
5. Adult ♂ P. Inwood Well, California. F. Stephens.
6. Adult ♂ P. Borego Springs, California. F. Stephens.
- 7-10. Adult ♂ Coll. Palm Springs, California. E. Heller.
- 11-14. Adult ♂ Coll. Cañon Esperanza, Lower California, Mexico. E. Heller.
- 15-17. Adult ♀ Coll. Cañon Esperanza, Lower California, Mexico. E. Heller.

18. Adult ♂ Coll. Cañon Diablo, Lower California, Mexico. E. Heller.
- 19-25. Adult ♂ Coll. San Matias Spring, Lower California, Mexico. E. Heller.
- 26-27. Adult ♀ Coll. San Matias Spring, Lower California, Mexico. E. Heller.
- 28-34. Adult ♂ Coll. Mattomi, Lower California, Mexico. E. Heller.
- 35-37. Adult ♀ Coll. Mattomi, Lower California, Mexico. E. Heller.
- 38-41. Adult ♂ Coll. Parral, Lower California, Mexico. E. Heller.
- 42-44. Adult ♀ Coll. Parral, Lower California, Mexico. E. Heller.
45. Adult ♂ Coll. Palomar, Lower California, Mexico. E. Heller.

Genus 157. **Heteromys. Pouched Spiny Rats and Mice.**

**Heteromys** Desm., Nouv. Dict. Hist. Nat., Mamm., 1817, p. 313.

Type *Mus anomalus* Thompson.

*Dasynotus* Wagl., Nat. Syst. Amph., 1830, p. 21.

*Sacomys* F. Cuv., Mém. Mus. Hist. Nat. Paris, x, 1823, p. 419.

*Xylomys* Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 43.

*Liomys* Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 44.

Subgenus A. **Heteromys.**

**581. *Heteromys irroratus* Gray.**

*Heteromys irroratus* Gray, Proc. Zool. Soc., 1868, p. 205. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 369. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 316. Zool. Ser.

**LA PARADA SPINY RAT.**

1. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
2. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
3. Juv. ♂ Coll. Lagunas, State of Oaxaca, Mexico. Heller & Barber.

**582. *Heteromys gaumeri* Allen & Chapman.**

*Heteromys gaumeri* Allen & Chapm., Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 9. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 371, fig. 69. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 317. Zool. Ser.

## GAUMER'S SPINY RAT.

1. Adult ♂ Pres. Buenavista, Xbac, Yucatan. G. F. Gaumer.

583. *Heteromys goldmani* Merriam.

*Heteromys goldmani* Merr., Proc. Biol. Soc. Wash., xv, 1902, p.

41. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub.,  
iv, Pt. 1, 1904, p. 373. Zoöl. Ser. *Id.* Check-L. Mamm. N.  
Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 318.  
Zoöl. Ser.

## GOLDMAN'S SPINY RAT.

- 1-3. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller  
& Barber.  
4-7. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller  
& Barber.

Subgenus B. *Liomys*.584. *Heteromys paralius* Elliot.

*Heteromys paralius* Elliot, Pub. Field Columb. Mus., iii, 1903, p.

233. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies,  
F. C. M. Pub., iv, Pt. 1, 1904, p. 381. Zoöl. Ser. *Id.* Check-  
L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi,  
1905, p. 320. Zoöl. Ser.

## LITTORAL SPINY MOUSE.

- 1-3. Adult ♂ Type and paratypes. Coll. San Carlos, State of  
Vera Cruz, Mexico. N. G. Buxton.  
4-12. Adult ♀ Paratypes. Coll. San Carlos, State of Vera Cruz,  
Mexico. N. G. Buxton.

585. *Heteromys jesupi* Allen.

*Heteromys jesupi* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p.

201.

## JESUP'S SPINY MOUSE.

1. Adult ♂ P. Don Diego, Colombia, South America. H. H.  
Smith.  
2. Juv. ♂ P. Don Diego, Colombia, South America. H. H.  
Smith.  
3. Adult ♀ P. Buritaca, Colombia, South America. H. H. Smith.

586. *Heteromys anomalus* (Thompson).

*Mus anomalus* Thomp., Trans. Linn. Soc., xi, 1815, p. 161, pl. x.

## THOMPSON'S SPINY MOUSE.

- 1-2. Adult ♂ Exch. Caura, Trinidad. Am. Mus. Nat. Hist. N. Y.  
F. M. Chapman.

- 3-4. Adult ♀ Exch. Princetown, Trinidad. Am. Mus. Nat. Hist.  
N. Y. F. M. Chapman.

**587. *Heteromys albolimbatus* Gray.**

*Heteromys albolimbatus* Gray, Proc. Zool. Soc., 1868, p. 205.  
Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv,  
Pt. 1, 1904, p. 375, fig. 70. Zool. Ser. *Id.* Check-L. Mamm.  
N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 320.  
Zool. Ser.

**GRAY'S SPINY MOUSE.**

1. Adult ♂ Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.
2. Adult ♀ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.

**588. *Heteromys alleni* Coues.**

*Heteromys alleni* Coues, Bull. Mus. Comp. Zool., viii, 1881, p. 187.  
Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 256,  
fig. 58. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies,  
F. C. M. Pub., iv, Pt. 1, 1904, p. 376, fig. 100. Zool. Ser. *Id.*  
Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,  
vi, 1905, p. 321. Zool. Ser.

**ALLEN'S SPINY MOUSE.**

1. Adult ♂ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.



FIG. XXXVII. *HETEROMYS ALLENI*. ALLEN'S SPINY MOUSE.



**589. *Heteromys exiguus* Elliot.**

*Heteromys exiguus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 146. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 377. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 321. Zoöl. Ser.

**LITTLE SPINY MOUSE.**

1. Adult ♂ Type. Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.

**a. *Heteromys pictus isthmius* (Merriam).**

*Liomys pictus isthmius* Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 46.

*Heteromys pictus isthmius* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 378. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 322. Zoöl. Ser.

**ISTHMIAN SPINY MOUSE.**

- 1-2. Adult ♀ Coll. Lagunas, State of Oaxaca, Mexico. Heller & Barber.
3. Adult ♂ Coll. Lagunas, State of Oaxaca, Mexico. Heller & Barber.
- 4-5. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 6-7. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

**590. *Heteromys texensis* (Merriam).**

*Heteromys alleni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 256. Zoöl. Ser. (nec Coues.)

*Liomys texensis* Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 44.

*Heteromys texensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 323. Zoöl. Ser.

**TEXAN SPINY MOUSE.**

- 1-2. Adult ♂ Topotypes. P. Brownsville, Texas. C. K. Worthen.
- 3-4. Adult ♀ Topotypes. P. Brownsville, Texas. C. K. Worthen.
5. Adult ♂ Topotype. Exch. Am. Mus. Nat. Hist. N. Y. F. B. Armstrong.
6. Adult ♀ Topotype. Exch. Am. Mus. Nat. Hist. N. Y. F. B. Armstrong.

Family X. **Bathyergidæ.**Genus 158. **Bathyergus.**

**Bathyergus** Illig., Prodr. Syst. Mamm. et Av., 1811, p. 86. Type  
*Mus maritimus* Gmelin.

591. **Bathyergus maritimus** (Gmelin).

*Mus maritimus* Gmel., Syst. Nat., 1788, p. 140.

*Mus suillus* Schreb., Säugth., IV, 1792, p. 715.

## CAPE OF GOOD HOPE MOLE RAT.

1. Adult ♀ P. Cape of Good Hope, Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 159. **Georhychus.**

**Georychus** (sic) Illig., Prodr. Syst. Mamm. et Av., 1811, p. 87.  
Type *Mus capensis* Pallas.

592. **Georhychus capensis** (Pallas).

*Mus capensis* Pall., Nov. Spec. Quad. Glir. Ord., 1777, pp. 72,  
172, pl. VII.

## CAPE MOLE RAT.

1. Adult — P. South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 160. **Myoscalops.**

**Myoscalops** Thos., Proc. Zool. Soc., 1890, p. 448. Type *Heliophobius argenteo-cinereus* Peters.

*Heliophobius* Peters, Berich. Bekannt. geeign. Verhandl. K. Preuss. Akad. Wiss. Berl., 1846, p. 259. (nec Boisdual, 1829, Lepidop.)

593. **Myoscalops argenteo-cinereus** (Peters).

*Heliophobius argenteo-cinereus* Peters, Berich. Bekannt. geeign. Verhandl. K. Preuss. Akad. Wiss. Berl., 1846, p. 259.

*Georychus!* *pallidus* Gray, Proc. Zool. Soc., 1864, p. 124.

## SILVER-GRAY MOLE MOUSE.

1. Adult — P. "Cape Colony"? Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 161. **Heterocephalus.**

**Heterocephalus** Rüpp., Mus. Senckenb., III, Heft 2, 1842, pp. 99-101, 175, Taf. VIII, fig. 1, x, figs. 3a-c. Type *Heterocephalus glaber* Rüppell.

594. **Heterocephalus philippsi** Thomas.

*Heterocephalus philippsi* Thos., Proc. Zool. Soc., 1885, pp. 612, 845, pl. LV, figs. 1-4.

## NAKED MOLE MOUSE.

1. Adult ♀ Coll. Mandera, Gerato Pass, Somaliland, East Africa. D. G. Elliot.
2. Adult ♀ Coll. Hullieh, Somaliland, East Africa. D. G. Elliot.

Family XI. **Jaculidæ. Jumping Rats and Mice.**Subfamily I. **Sicistinæ.**Genus 162. **Sicista.**

**Sicista** Gray, in Griff. Anim. Kingd., v, 1827, p. 227. Type *Mus subtilis* Pallas.

*Sminthus* Nordm., in Demidoff's Voy. Russ. Mérid., III, livr. 1, cah. 1, 1839, pp. 49-51; Atl., tab. 4, fig. 2.

595. **Sicista subtilis** (Pallas).

*Mus subtilis* Pall., Reise, II, 1773, p. 705.

*Mus vagus* Pall., Nov. Spec. Quad. Glir. Ord., II, 1779, p. 327.

*Mus betulinus* Pall., Nov. Spec. Quad. Glir. Ord., II, 1779, p. 332.

## CUNNING JUMPING RAT.

1. Adult — P. Karpathia, South Russia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. **Zapodinæ.**Genus 163. **Zapus.**

**Zapus** Coues, Bull. U. S. Geol. Surv. Terr., 2d Ser., I, 1875, p. 253. Type *Dipus hudsonius* Zimmermann.

*Dipus* Zimm., Geogr. Gesch. Mensch. u. vierfüss. Thiere, II, 1780, p. 358. (Old World species.)

- Gerbillus* Rafin., Précis des Découv. Somolog., 1814, p. 14. (nec Desmarest, 1804.)  
*Meriones* F. Cuv., Dents des Mamm., 1823, pp. 187, 256. (nec Illiger, 1811.)  
*Jaculus* Wagl., Nat. Syst. Amphib., 1830, p. 23. (nec Erxleben, 1777.)  
*Napæozapus* Preble, N. Am. Faun., No. 15, 1899, p. 33.  
*Eozapus* Preble, N. Am. Faun., No. 15, 1899, p. 37.

Subgenus A. *Zapus*.

596. *Zapus hudsonius* (Zimmermann).

- Dipus hudsonius* Zimm., Geog. Gesch. Mensch. u. vierfüss. Thiere, II, 1780, p. 358.  
*Dipus labradorius* Kerr., Anim. Kingd., 1792, p. 276.  
*Dipus canadensis* Davies, Trans. Linn. Soc. Lond., IV, 1798, p. 157.  
*Jaculus americanus* Wagl., Nat. Syst. Amphib., 1830, p. 23.  
*Meriones microcephalus* Harl., Proc. Zool. Soc., 1839, p. 1.  
*Meriones academicus* Dawson, Edinb. New Philos. Journ., N. S., III, 1856, p. 2.  
*Zapus hudsonius hardyi* Batchelder, Proc. N. Eng. Zool. Club, I, 1899, p. 5.  
*Zapus hudsonius* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 257, fig. 59: Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 324. Zool. Ser.

HUDSON BAY JUMPING MOUSE.

1. Adult ♂ P. Shelter Island, New York. C. K. Worthern.
2. Adult ♂ Exch. Lawyerville, New York. Am. Mus. Nat. Hist. N. Y. Newell.
- 3-4. Adult ♂ Coll. Murray Bay, Province of Quebec, Canada. T. Surber.
5. Adult — P. Illinois. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Zapus hudsonius campestris* Preble.

- Zapus hudsonius campestris* Preble, N. Am. Faun., No. 15, 1899, p. 20. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 259. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 325. Zool. Ser.

PRAIRIE JUMPING MOUSE.

- 1-10. Adult ♂ P. Boulder, Colorado. R. T. Young.
- 11-12. Adult ♀ P. Boulder, Colorado. R. T. Young.



- 13. Adult ♂ Coll. Bottineau, North Dakota. W. E. Snyder.
- 14. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
- 15. Adult ♂ Coll. Minot, North Dakota. W. E. Snyder.
- 16-17. Adult ♀ Coll. Minot, North Dakota. W. E. Snyder.

### 597. *Zapus princeps* Allen.

*Zapus princeps* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1893, p.

- 71. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 260. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 325. Zoöl. Ser.

### ROCKY MOUNTAIN JUMPING MOUSE.

- 1. Adult ♂ Topotype. Exch. Florida, Colorado. Am. Mus. Nat. Hist. N. Y. C. P. Rowley.

### a. *Zapus princeps minor* Preble.

*Zapus princeps minor* Preble, N. Am. Faun., No. 15, 1899, p. 23.

- Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 260. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 325. Zoöl. Ser.

### SASKATCHEWAN JUMPING MOUSE.

- 1-2. Adult ♂ P. Red Deer, Alberta, Canada. G. F. Dippie.
- 3-5. Juv. ♂ P. Red Deer, Alberta, Canada. G. F. Dippie.
- 6-8. Adult ♂ P. Blindman River, Alberta, Canada. G. F. Dippie.
- 9. Adult ♀ P. Blindman River, Alberta, Canada. G. F. Dippie.
- 10-11. Adult ♂ P. Nat. Park, Alberta, Canada. G. F. Dippie.

### 598. *Zapus trinotatus* Rhoads.

*Zapus trinotatus* Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p.

- 421. Zoöl. Ser. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 261. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 326. Zoöl. Ser.

*Zapus imperator* Elliot, Pub. Field Columb. Mus., 1, 1899, p. 228.

Zoöl. Ser.

### NORTHWEST JUMPING MOUSE.

- 1. Adult ♂ P. Carpenter's Mt., Cariboo, British Columbia, Canada. C. K. Worthern.
- 2. Adult ♀ P. Carpenter's Mt., Cariboo, British Columbia, Canada. C. K. Worthern.
- 3. Adult ♂ P. Sumas, British Columbia, Canada. C. K. Worthern.
- 4. Adult ♂ P. Okanagan, British Columbia, Canada. C. K. Worthern.
- 5-8. Adult ♂ Coll. Johnson's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.

- 9-10. Juv. ♀ Coll. MacDonald's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.
- 11-17. Adult ♂ Type and paratypes of *Z. imperator*. Coll. Sieg's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.
18. Juv. ♂ Coll. Sieg's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.
- 19-21. Adult ♂ Coll. Boulder Creek, Elwah River, Clallam County, Washington. D. G. Elliot.
- 22-23. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 24-26. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 27-28. Adult ♀ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 29-32. Adult ♂ Coll. Requa, California. E. Heller.
- 33-38. Adult ♂ Coll. Eureka, California. E. Heller.
- 39-42. Adult ♀ Coll. Eureka, California. E. Heller.
- 43-47. Adult ♂ Coll. Crescent City, California. E. Heller.
48. Adult ♀ Coll. Crescent City, California. E. Heller.
- 49-50. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
- 51-52. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.

*a. Zapus trinotatus alleni* (Elliot).\*

*Zapus alleni* Elliot, Pub. Field Columb. Mus., I, 1898, p. 212. Zoöl. Ser.

*Zapus trinotatus alleni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 261. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 326. Zoöl. Ser.

ALLEN'S JUMPING MOUSE.

- 1-3. Adult ♀ Type and paratypes. P. Pyramid Peak, California. W. W. Price.
4. Adult ♀ P. Blue Lake, California. W. W. Price.
- 5-6. Adult ♀ P. Silver Lake, California. W. W. Price.
7. Adult ♂ P. Hermit Valley, California. W. W. Price.
- 8-11. Adult ♀ P. Hermit Valley, California. W. W. Price.
12. Adult ♀ Coll. Mt. Whitney, California. E. Heller.

Subgenus B. *Napæozapus*.

599. *Zapus insignis* Miller.

*Meriones labradorius* Dawson, Edinb. New Philos. Journ., N. S., III 1856, p. 2. (nec Kerr.)

*Jaculus hudsonius* Baird, N. Am. Mamm., 1857, p. 467. (Part.)

*Zapus insignis* Miller, Amer. Nat., xxv, 1891, p. 742. Elliot,

Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 263, fig. 60.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,

F. C. M. Pub., VI, 1905, p. 328. Zoöl. Ser.

#### WOODLAND JUMPING MOUSE.

1-2. Adult ♂ Coll. Gravenhurst, Ontario, Canada. L. Kenkel.

3. Adult ♀ Exch. Peterborough, New York. U. S. Nat. Mus.

Wash. G. S. Miller, Jr.

### Subfamily III. **Jaculinæ. Jerboas.**

#### Genus 164. **Alactaga.**

**Allactaga** F. Cuv., Proc. Zoöl. Soc., 1836, pp. 141-142. Type *Dipus*

*alactaga* Olivier=*Mus jaculus* Pallas. (nec Linn.)

*Alactaga* F. Cuv., Trans. Zoöl. Soc. Lond., II, 1838, p. 133.

#### 600. **Alactaga acontion** (Pallas).

*Dipus acontion* Pall., Zoogr. Rosso-Asiat., I, 1811, p. 182.

#### PALLAS'S JERBOA.

1. Adult — P. South Russia! Ward's Nat. Scien. Establ., Rochester, N. Y.

### Family XII. **Pedetidæ.**

#### Genus 165. **Pedetes.**

**Pedetes** Illig., Prodr. Syst. Mamm. et Av., 1811, p. 81. Type *Dipus*

*cafer* Gmelin=*Mus cafer* Pallas.

*Helamys* F. Cuv., Régn. Anim., I, 1817, p. 202. (footnote.)

*Lagotis* Blainv., Nouv. Dict. Hist. Nat., 2d ed., IX, 1817, p. 284.

#### 601. **Pedetes cafer** (Pallas).

*Mus cafer* Pallas, Nov. Spec. Quad. Glir. Ord., 1778, p. 87.

*Dipus cafer* Schreb., Säugth., IV, 1792, p. 854, pl. 230.

*Pedetes caffer* A. Smith, Descr. Cat. S. Afric. Mus., 1826, p. 26.

Parsons, Proc. Zoöl. Soc., 1898, p. 858. Sclat., Proc. Zoöl.

Soc., 1899, p. 428.

*Helamys capensis* F. Cuv., Hist. Nat. Mamm., 1829, pl.

*Sylvilagus superciliaris* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1904, p. 445.

BONDA COTTON-TAIL.

- 1-2. Adult ♂ Paratypes. P. Bonda, Colombia, South America. H. H. Smith.
- 3-6. Adult ♀ Paratypes. P. Bonda, Colombia, South America. H. H. Smith.

642. *Lepus nuttalli* Bachman.

*Lepus nuttalli* Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 345, pl. 22. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 284. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 425. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 348. Zoöl. Ser.

NUTTALL'S COTTON-TAIL.

1. Adult ♂ P. Alberta, Canada. G. F. Dippie.
2. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
3. Adult ♀ Exch. Indian Reservation, Utah. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 4-7. Adult ♂ P. Rockvale, Colorado. C. K. Mason.
8. Adult ♀ P. Rockvale, Colorado. C. K. Mason.
9. Adult — P. Quenda, Colorado. C. K. Mason.
10. Adult ♀ P. Greenhorn Mts., Colorado. C. K. Mason.
11. Adult — P. Fremont County, Colorado. C. K. Mason.

643. *Lepus baileyi* Merriam.

*Lepus baileyi* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 148. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 284. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 349. Zoöl. Ser.

BAILEY'S COTTON-TAIL.

1. Adult ♂ P. Billings, Montana. E. S. Thompson.
2. Adult ♀ P. Billings, Montana. E. S. Thompson.

644. *Lepus grangeri* (Allen).

*Lepus sylvaticus grangeri* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 264.

*Lepus grangeri* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1896, p. 246. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 285. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 349. Zoöl. Ser.

GRANGER'S COTTON-TAIL.

1. Adult ♂ Exch. Battle Creek, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.



2. Juv. ♂ Exch. Cheyenne Reservation, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

**645. *Lepus arizonæ* (Allen).**

- Lepus sylvaticus* var. *arizonæ* Allen, N. Am. Rod., 1877, p. 332.  
*Lepus arizonæ* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 285. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., 14, Pt. 1, 1904, p. 423. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., 16, 1905, p. 349. Zoöl. Ser.

**ARIZONA COTTON-TAIL.**

1. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.  
 2-4. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.  
 5. Adult ♀ P. Fairbank, Arizona. W. W. Price.  
 6-7. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.  
 8-10. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.  
 11. Adult — P. Fort Lowell, Arizona. W. W. Price.  
 12-13. Adult ♀ P. Mt. Siegel, Nevada. W. W. Price.  
 14. Juv. ♀ P. Mt. Siegel, Nevada. W. W. Price.  
 15. Adult ♂ P. Anderson's Ranch, Nevada. W. W. Price.  
 16. Juv. ♂ P. Anderson's Ranch, Nevada. W. W. Price.  
 17-18. Adult ♀ P. Anderson's Ranch, Nevada. W. W. Price.  
 19. Juv. ♀ P. Huachuca Mts., Arizona. W. W. Price.  
 20-21. Juv. ♀ P. Chiricahua Mts., Arizona. W. W. Price.

**a. *Lepus arizonæ pinetis* (Allen).**

- Lepus sylvaticus pinetis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 348.  
*Lepus grangeri pinetis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 285. Zoöl. Ser.  
*Lepus arizonæ pinetis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., 16, 1905, p. 350. Zoöl. Ser.

**PINE WOOD COTTON-TAIL.**

- 1-2. Adult ♂ P. Boulder, Colorado. R. T. Young.

**b. *Lepus arizonæ major* Mearns.**

- Lepus arizonæ major* Mearns, Proc. U. S. Nat. Mus., 1896, p. 557.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 286. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., 14, Pt. 1, 1904, p. 423. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., 16, 1905, p. 350. Zoöl. Ser.

**GREATER DESERT COTTON-TAIL.**

1. Adult ♂ Exch. Fort Verde, Yavapai County, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

*Proechimys! canicollis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 264.

**GOLDEN-NAPED SPINY RAT.**

- 1-3. Adult ♂ P. Mamatoca, Colombia, South America. H. H. Smith.
- 4-7. Adult ♀ P. Mamatoca, Colombia, South America. H. H. Smith.
- 8. Juv. ♀ P. Mamatoca, Colombia, South America. H. H. Smith.
- 9. Adult ♂ Paratype. P. Bonda, Colombia, South America. H. H. Smith.
- 10. Adult ♂ P. Santa Marta, Colombia, South America. H. H. Smith.

*a. Proechinomys centralis chiriquinus* Thomas.

*Proechimys! centralis chiriquinus* Thos., Ann. Mag. Nat. Hist., 7th Ser., v, 1900, p. 220.

*Proechinomys centralis chiriquinus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 387. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 329. Zoöl. Ser.

**BOGAVA SPINY RAT.**

- 1-10. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 11-12. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

Subfamily III. **Capromyinae.**

Genus 170. **Myocastor.**

**Myocastor** Kerr, Anim. Kingd., Mamm., 1, Syst. Cat., Nos. 458-521, 1792, pp. 225-226. Type *Mus coypus* Molina.

*Myopotamus* Geoff., Ann. Mus. Hist. Nat. Paris, vi, 1805, p. 81.

**608. Myocastor coypus** (Molina).

*Mus coypus* Molina, Sag. Stor. Nat. Chili, 1782, p. 287.

**BEAVER RAT.**

- 1. Adult — P. "Chili." Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 171. **Capromys. Hutias.**

**Capromys** Desm., Mém. Soc. Hist. Nat. Paris, 1, 1822, p. 43. Type *Capromys furnieri* Desmarest = *Isodon pilorides* Say.

- Geocapromys* Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1901, p. 314.  
*Procapromys* Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1901, p. 322.

Subgenus A. *Capromys*.609. *Capromys pilorides* (Say).

- Isodon pilorides* Say, Jour. Acad. Nat. Scien. Phil., II, 1822, p. 333, fig.  
*Capromys furnieri* Desm., Mém. Soc. Hist. Nat. Paris, 1822, p. 43, pl. I.  
*Capromys quemi* Fisch., Syn. Mamm., 1830, Adden., p. 389.  
*Capromys pilorides* Fisch., Syn. Mamm., 1830, Adden., p. 389.  
 Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 390, figs. 73, LII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 330. Zoöl. Ser.

## HAIRY HUTIA.

1. Adult — Pres. Cuba. C. B. Cory?
2. Adult — P. Cuba. Ward's Nat. Scien. Establ., Rochester, N. Y.

610. *Capromys prehensilis* Poeppig.

- Capromys prehensilis* Poeppig, Jour. Acad. Nat. Scien. Phil., 1824, p. 11. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 391. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 331. Zoöl. Ser.

## PREHENSILE-TAILED HUTIA.

1. Adult — Pres. Cuba. C. B. Cory?

Subgenus B. *Geocapromys*.611. *Capromys ingrahami* Allen.

- Capromys ingrahami* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 329. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 394. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 332. Zoöl. Ser.

## INGRAHAM'S HUTIA.

1. Adult — Exch. Plana Keys, Bahamas. Am. Mus. Nat. Hist. N. Y. D. P. Ingraham.

## LIVELY COTTON-TAIL.

1. Adult ♂ Exch. Long Island, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

e. *Lepus floridanus chapmani* (Allen).

*Lepus sylvaticus bachmani* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 170. (nec Waterhouse.)

*Lepus floridanus chapmani* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 12. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 282. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 343. Zool. Ser.

## CHAPMAN'S COTTON-TAIL.

- 1-2. Adult ♂ Topotypes. P. Corpus Christi, Texas. G. K. Cherrie.

- 3-5. Adult ♀ Topotypes. P. Corpus Christi, Texas. G. K. Cherrie.

6. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

f. *Lepus floridanus connectens* Nelson.

*Lepus floridanus connectens* Nelson, Proc. Biol. Soc. Wash., xvii, 1904, p. 105. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, Append., p. 743. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 343. Zool. Ser.

## ALTA MIRA COTTON-TAIL.

- 1-2. Adult ♂ Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

3. Adult — Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.

4. Adult ♂ Coll. Valles Estado, State of San Luis Potosi, Mexico. G. F. Breninger.

g. *Lepus floridanus aztecus* (Allen).

*Lepus sylvaticus aztecus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 188.

*Lepus floridanus aztecus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 418. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 344. Zool. Ser.

## TEHUANTEPEC COTTON-TAIL.

1. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

2. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.



3-7. Adult ♂ Pres. San Felipe, Yucatan, Mexico. C. B. Cory.

*h. Lepus floridanus subcinctus* Miller.

*Lepus floridanus subcinctus* Miller, Proc. Acad. Nat. Scien. Phil., 1899, p. 386. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 417, fig. 80. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 344. Zoöl. Ser.

MICHOACAN COTTON-TAIL.

1. Adult ♂ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.
2. Adult ♀ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

*i. Lepus floridanus persultator* Elliot.

*Lepus floridanus persultator* Elliot, Pub. Field Columb. Mus., iii, 1903, p. 147. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 418. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 345. Zoöl. Ser.

PUEBLA COTTON-TAIL.

1. Adult — Type. Coll. Puebla, State of Puebla, Mexico. F. E. Lutz.

*j. Lepus floridanus holzneri* (Mearns).

*Lepus sylvaticus holzneri* Mearns, Proc. U. S. Nat. Mus., 1896, p. 554.

*Lepus floridanus rigidus* Mearns, Proc. U. S. Nat. Mus., 1896, p. 555. (footnote.)

*Lepus holzneri* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 284. Zoöl. Ser.

*Lepus durangæ* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1903, p. 609. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 424, Index, p. xi. Zoöl. Ser.

*Lepus floridanus holzneri* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 419. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 345. Zoöl. Ser.

HOLZNER'S COTTON-TAIL.

1. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
2. Juv. ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

637. *Lepus sanctidiegi* (Miller).

*Lepus floridanus sanctidiegi* Miller, Proc. Acad. Nat. Scien. Phil., 1899, p. 389.

*Eucritus* Fisch., Mém. Soc. Imp. Mosc., v, 1817, pp. 372, 411.

*Sinetheres* (sic) F. Cuv., Mém. Mus. Hist. Nat. Paris, ix, 1822, p.

433.

*Labourea* Bilb., Syn. Faun. Scandinav., Mamm., i, 1828, Consp. A.

*Cercolabes* Brandt, Mamm. Exot. Nov., in Mém. Acad. Imp. St.

Pétersb., Sér. 3, III, 1835, p. 55.

**615. *Coendu mexicanum* (Kerr).**

*Hystrix mexicana* Kerr, Anim. Kingd., 1792, p. 214.

*Hystrix prehensilis* Schreb., Säugth., iv, 1792, p. 603.

*Coendu mexicanum* Elliot, Mamm. Middle Amer. & W. Indies,  
F. C. M. Pub., iv, Pt. 1, 1904, p. 402, figs. 77, LV. Zoöl. Ser.



FIG. XXXIX. COENDU MEXICANUM. PREHENSILE-TAILED PORCUPINE.

*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 335. Zoöl. Ser.

**PREHENSILE-TAILED PORCUPINE.**

1. Adult — P. Venezuela. Ward's Nat. Scien. Établ., Rochester, N. Y.
2. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
3. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

Family XVI. **Hystrioidæ. Old World Porcupines.**Subfamily I. **Hystrioidinæ.**Genus 175. **Hystrix.**

**Hystrix** Linn., Syst. Nat., 1, 1758, p. 56. Type *Hystrix cristata* Linnæus.

**616. Hystrix cristata** Linnæus.

*Hystrix cristata* Linn., Syst. Nat., 1, 1758, p. 76.

*Acanthion cuvieri* Gray, Proc. Zool. Soc., 1847, p. 102.

## EUROPEAN PORCUPINE.

1. Adult — P. "Europe"! Ward's Nat. Scien. Establ., Rochester, N. Y.

**617. Hystrix crassipinis** Günther.

*Hystrix crassipinis* Günth., Proc. Zool. Soc., 1876, p. 736, figs. a, b, c. Elliot, Pub. Field Columb. Mus., 1, 1896, p. 71. Zool. Ser.

## LARGE-SPINED PORCUPINE.

1. Adult — P. Borneo. Menage Scientific Exped. Bourns & Worcester.

Genus 176: **Trichys.**

**Trichys** Günth., Proc. Zool. Soc., 1876, p. 739, pl. LXXI, figs. 2, 2a. Type *Trichys lipura* Günther.

**618. Trichys lipura** Günther.

*Trichys lipura* Günth., Proc. Zool. Soc., 1876, p. 739.

*Trichys guentheri* Thos., Proc. Zool. Soc., 1889, p. 235.

GÜNTHER'S PORCUPINE. *Augkis*, native name.

1. Adult — P. Sibuyan River, Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family XVII. **Viscaciidæ.**Genus 177. **Calomys.**

\***Callomys!** d'Orb. & I. Geoff., Ann. Sci. Nat. Paris, XXI, 1830, p. 289. Type *Callomys! aureus* d'Orbigny & I. Geoffroy = *Lagidium peruanum* Meyen.

\* In 1816 Oken (l. c.) proposed the genus VISCACCIA for the two species, *Lepus chilensis* and *Mus laniger*, the latter, however, excluded by the characters

Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 357. Zoöl. Ser.

LOWER CALIFORNIA JACK RABBIT.

1. Adult ♂ P. La Paz, Lower California, Mexico. A. Forrer.
2. Adult ♀ P. La Paz, Lower California, Mexico. A. Forrer.

656. *Lepus martirensis* Stowell.

*Lepus martirensis* Stowell, Proc. Calif. Acad. Scien., 2d Ser., v, 1895, p. 51. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 1, 1904, p. 439. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 358. Zoöl. Ser.

SAN PEDRO MARTIR JACK RABBIT.

- 1-2. Adult ♂ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 3-4. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
5. Adult ♀ Coll. Rosarito, Lower California, Mexico. E. Heller.

Subgenus F. *Lepus*. Changeable Hares.

657. *Lepus europaeus* Pallas.

*Lepus europaeus* Pall., Nov. Spec. Quad. Glir. Ord., 1778, p. 30.  
*Lepus timidus* Schreb., Säugth., iv, 1792, pl. 233. (nec Linn.)

EUROPEAN HARE.

1. Adult — P. Germany. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — P. Switzerland. Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Adult ♂ P. Brunswick, Germany. J. A. Loring.
4. Adult ♀ P. Brunswick, Germany. J. A. Loring.
- 5-6. Adult — P. Brunswick, Germany. J. A. Loring.
- 7-8. Adult — P. Europe. C. K. Worthern.

658. *Lepus somalensis* Heuglin.

*Lepus somalensis* Heugl., Nov. Act. Acad. Cæs. Leop.-Carol., xxviii, 1861, p. 5.

SOMALI HARE.

1. Adult — Coll. Silo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
2. Juv. — Coll. Silo Plain, Haud, Somaliland E. Africa. D. G. Elliot.



**659. *Lepus arcticus* Ross.**

*Lepus arcticus* Ross, Voy. Arct. Reg., II, 1819, Append. IV, p. 151.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 270.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 358. Zoöl. Ser.

*Lepus glacialis* Leach, in Ross's Voy. Arct. Reg., II, 1819, Append. IV, p. 170.

*Lepus timidus* var. *arcticus* Allen, Mon. N. Am. Rod., 1877, p. 288.

**POLAR HARE.**

1-2. Adult ♂ P. Calgary, Alberta, Canada. G. F. Dippie.

3. Adult ♂ P. Pine Creek, Alberta, Canada. G. F. Dippie.

4. Adult ♀ P. Carmen, Manitoba, Canada. G. F. Dippie.

**660. *Lepus grænlandicus* Rhoads.**

*Lepus grænlandicus* Rhoads, Amer. Nat., XXX, 1896, p. 236. El-

liot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 271.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 359. Zoöl. Ser.

**GREENLAND HARE.**

1-2. Adult ♂ P. Bache Peninsula, Greenland. S. Warmbath.

3-4. Adult ♀ P. Bache Peninsula, Greenland. S. Warmbath.

**661. *Lepus americanus* Erxleben.**

*Lepus americanus* Erxl., Syst. Reg. Anim., I, 1777, p. 330. Elliot,

Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 273. Zoöl.

Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 360. Zoöl. Ser.

*Lepus hudsonius* Pall., Nov. Spec. Quad. Glir. Ord., 1778, p. 30.

*Lepus nanus* Schreb., Säugth., IV, 1792, p. 881, pl. 234B.

*Lepus borealis* Schinz, Synop., II, 1845, p. 286.

*Lepus campestris* Hayden, Amer. Nat., III, 1869, p. 115. (Part.)

**AMERICAN HARE.**

1. Adult ♂ Exch. Sherburne, Vermont. Am. Mus. Nat. Hist. N. Y.

2. Adult ♂ P. Orillia, Ontario, Canada. G. F. Dippie.

3. Adult ♀ Exch. Andover, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.

4. Adult ♂ Exch. Andover, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. A. Lockwood.

5. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.

6. Adult ♂ P. Calgary, Alberta, Canada. G. F. Dippie.

7. Adult ♂ Coll. Park Siding, Michigan. C. Brandler.

8. Adult ♀ Coll. Park Siding, Michigan. C. Brandler.

**624. Dasyprocta aguti** (Linnæus).*Mus aguti* Linn., Syst. Nat., I, 1766, p. 80.*Dasyprocta aguti* Desm., Mamm., 1820, p. 358.

## YELLOW-RUMPED AGOUTI.

1. Adult — P. Guiana. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 180. **Agouti. Paca.**

**Agouti** Lacep., Tabl. Divis. Sous-divis. Ordres et Gen. Mamm., 1799, p. 9. Type *Mus paca* Linnæus.

*Cælogenus* (sic) F. Cuv., Ann. Mus. Hist. Nat. Paris, x, 1807, p. 203.

*Paca* Fisch., Zoogn., III, 1814, p. 85.

*Genyscælus* Liais, Climats, Géol., Faun. et Geogr., Botan. Brésil, 1872, p. 537.

**625. Agouti paca** (Linnæus).*Mus paca* Linn., Syst. Nat., I, 1766, p. 81.

## THE PACA.

1. Adult — P. South America. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family XIX. **Caviidæ. Cavies.**Genus 181. **Cavia.**

**Cavia** Pallas, Misc. Zool., 1766, p. 30. Type *Cavia cobaya* Pallas.

**626. Cavia aperea** Erxleben.*Cavia aperea* Erxleb., Syst. Reg. Anim., 1777, p. 348.

*Cavia leucopyga* Brandt, Mém. Acad. Sci. St. Pétersb., III, 1835, p. 436, pl. 16.

## ERXLEBEN'S CAVY.

1. Adult — P. Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.

**627. Cavia porcellus** (Linnæus).*Mus porcellus* Linn., Syst. Nat., I, 1758, p. 59; I, 1766, p. 79.

## RESTLESS CAVY.

1. Adult — P. No locality. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 182. **Hydrochærus.****Hydrochærus** Brisson, Regn. Anim., 2d ed., 1762, pp. 12, 80-81.Type *Hydrochærus hydrochærus* Brisson = *Sus hydrochæris!* Linnæus.**628. Hydrochærus hydrochærus** (Linnæus).*Sus hydrochæris!* Linn., Syst. Nat., 1, 1766, p. 103.*Hydrochærus capybara* Erxleben, Syst. Regn. Anim., 1777, p. 193. Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 56, pl. 174. Tschudi, Faun. Peru., 1844, p. 194. Waterh., Mamm., II, 1848, p. 201, pl. 5, fig. 2. Flower, Proc. Zool. Soc., 1884, p. 252.

## CAPYBARA WATER-HOG.

1. Adult — P. South America! Ward's Nat. Scien. Establ., Rochester, N. Y.

## SUBORDER II. DUPLICIDENTATA.

Family XX. **Ochotonidæ.**Genus 183. **Ochotona. Pikas, Chief Hares.****Ochotona** Link, Zool. Beitr. Naturg., 1, Pt. II, 1795, p. 74. Type undetermined.*Lagomys* Storr, Prodr. Meth. Mamm., 1780, pp. 39-40, tab. B.*Ogotoma* Gray, Ann. Mag. Nat. Hist., 3d Ser., XX, 1867, p. 220.**629. Ochotona princeps** (Richardson).*Lepus princeps* Richards., Zool. Jour., III, 1828, p. 520.*Ochotona princeps* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 267, fig. 61. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 338. Zool. Ser.

## CHIEF PIKA.

1-2. Adult ♀ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.

3-6. Adult ♂ P. Canadian Nat. Park, Alberta, Canada. G. F. Dippie.

7-8. Adult ♂ P. Banff, Alberta, Canada. G. F. Dippie.

9-10. Adult ♀ P. Banff, Alberta, Canada. G. F. Dippie.

**630. Ochotona schisticeps** (Merriam).*Lagomys schisticeps* Merr., N. Am. Faun., No. 2, 1889, p. 11.

- 11-13. Adult ♂ Coll. San Quentin, Lower California, Mexico.  
E. Heller.
- 14-18. Adult ♀ Coll. San Quentin, Lower California, Mexico.  
E. Heller.
19. Juv. ♂ P. San Antonio, California. W. W. Price.
- 20-22. Juv. ♀ P. San Antonio, California. W. W. Price.

**649. *Lepus peninsularis* Allen.**

*Lepus peninsularis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1898,  
p. 144. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M.  
Pub., IV, Pt. 1, 1904, p. 430. Zool. Ser. *Id.* Check-L. Mamm.  
N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 353.  
Zool. Ser.

**LOWER CALIFORNIA COTTON-TAIL.**

1. Adult ♀ P. La Paz, Lower California, Mexico. A. Forrer.

**Subgenus D. *Oryctolagus*.**

**650. *Lepus cuniculus* Linnæus.**

*Lepus cuniculus* Linn., Syst. Nat., I, 1766, p. 77. Waterhouse,  
Mamm., II, 1848, p. 64.

**EUROPEAN RABBIT.**

1. Adult ♀ P. Brunswick, Germany. J. A. Loring.

**Subgenus E. *Macrotolagus*. Jack Rabbits.**

**651. *Lepus alleni* Mearns.**

*Lepus alleni* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p.



FIG. XL. *LEPUS ALLENI*. ALLEN'S JACK RABBIT.



294. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 288. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 433, fig. LVIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 353. Zoöl. Ser.

ALLEN'S JACK RABBIT.

- 1-3. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.  
 4-6. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.  
 7-8. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.  
 9-10. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.

652. *Lepus callotis* Wagler.

- Lepus callotis* Wagl., Nat. Syst. Amph., 1830, p. 23. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 288. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 431. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 353. Zoöl. Ser.  
*Lepus nigricaudatus* Bennett, Proc. Zoöl. Soc., 1833, p. 41.  
*Lepus mexicanus* Rich., 6th Rep. Brit. Assoc., 1837, p. 150.

BEAUTIFUL-EARED JACK RABBIT.

1. Adult — Coll. Puebla, State of Puebla, Mexico. F. E. Lutz.  
*a. Lepus callotis flavigularis* (Wagner).  
*Lepus flavigularis* Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 107.  
*Lepus callotis flavigularis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 353, Syn. *L. callotis*; Appendix, p. 543. Zoöl. Ser.

YELLOW-THROATED JACK RABBIT.

- 1-10. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.  
 11-13. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

653. *Lepus merriami* Mearns.

- Lepus texianus*! Aud. & Bachm., Quad. N. Am., III, 1853, p. 156, pl. CXXXIII. (nec Waterhouse.)  
*Lepus merriami* Mearns, Proc. U. S. Nat. Mus., 1896, p. 444. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 289, pl. XXVII. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 432. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 354. Zoöl. Ser.

Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 341.  
Zoöl. Ser.

WANDERING SWAMP HARE.

1. Adult ♂ Type. Coll. Dougherty, Indian Territory. T. Surber.
2. Adult ♀ Paratype. Coll. Dougherty, Indian Territory. T. Surber.

635. *Lepus truei* Allen.

*Lepus truei* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 192.

*Lepus truei* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 415. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 341. Zoöl. Ser.

TRUE'S SWAMP HARE.

1. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Subgenus B. *Sylvilagus*. Forest Hares.

636. *Lepus floridanus* (Allen).

*Lepus sylvaticus floridanus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 160.

*Lepus floridanus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 280, pl. XXVI. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 342. Zoöl. Ser.

FLORIDA COTTON-TAIL.

1. Adult ♂ Coll. Micco, Florida. T. Surber.
  - 2-3. Juv. — Coll. Enterprise, Florida. T. Surber.
- a. *Lepus floridanus mallurus* (Thomas).  
*Lepus sylvaticus* Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 403. (nec Nillson.)  
*Lepus nuttalli mallurus* Thos., Ann. Mag. Nat. Hist., 7th Ser., II, 1898, p. 320.  
*Lepus floridanus mallurus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 280. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 342. Zoöl. Ser.

COMMON COTTON-TAIL.

1. Adult ♀ Pres. Laporte, Indiana. C. M. Barber.
- 2-4. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
5. Adult ♂ Coll. Apex, North Carolina. T. Surber.

6. Adult ♂ Coll. Gainesville, Florida. T. Surber.
7. Adult ♂ Coll. Enterprise, Florida. T. Surber.
8. Adult ♀ Coll. Enterprise, Florida. T. Surber.
9. Adult ♂ Pres. Hicksville, Ohio. S. E. Meek.
10. Adult — Pres. Hicksville, Ohio. S. E. Meek.
- 11-17. Adult ♂ P. Lawrence, Kansas. J. Rowley.
- 18-22. Adult ♀ P. Lawrence, Kansas. J. Rowley.
23. Adult — P. Raleigh, North Carolina. Ward's Nat. Scien. Establ., Rochester, N. Y.
24. Adult — Coll. Fox Lake, Illinois. L. Pray.

**b. *Lepus floridanus mearnsi* (Allen).**

*Lepus sylvaticus mearnsii* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 171.

*Lepus floridanus mearnsi* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 13. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 280. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 342. Zool. Ser.

**MEARNS'S COTTON-TAIL.**

- 1-2. Adult ♂ P. Knoxville, Iowa. G. K. Cherrie.
- 3-5. Adult ♀ P. Knoxville, Iowa. G. K. Cherrie.
6. Adult ♀ Exch. Toronto, Ontario, Canada. Am. Mus. Nat. Hist. N. Y. E. S. Thompson.
- 7-8. Adult ♀ P. Dickinson, Dakota. G. K. Cherrie.
9. Adult ♂ Topotype. Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
10. Adult ♂ Pres. Beaver Dam, Wisconsin. W. E. Snyder.

**c. *Lepus floridanus transitionalis* (Bangs).**

*Lepus sylvaticus transitionalis* Bangs, Proc. Bost. Soc. Nat. Hist., 1895, p. 405.

*Lepus floridanus transitionalis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 281. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 342. Zool. Ser.

**BANGS'S COTTON-TAIL.**

1. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.

**d. *Lepus floridanus alacer* (Bangs).**

*Lepus sylvaticus alacer* Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 136.

*Lepus floridanus alacer* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 282. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 343. Zool. Ser.

## LIVELY COTTON-TAIL.

1. Adult ♂ Exch. Long Island, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

e. *Lepus floridanus chapmani* (Allen).

*Lepus sylvaticus bachmani* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 170. (nec Waterhouse.)

*Lepus floridanus chapmani* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 12. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 282. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 343. Zoöl. Ser.

## CHAPMAN'S COTTON-TAIL.

- 1-2. Adult ♂ Topotypes. P. Corpus Christi, Texas. G. K. Cherrie.
- 3-5. Adult ♀ Topotypes. P. Corpus Christi, Texas. G. K. Cherrie.
6. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

f. *Lepus floridanus connectens* Nelson.

*Lepus floridanus connectens* Nelson, Proc. Biol. Soc. Wash., xvii, 1904, p. 105. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, Append., p. 743. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 343. Zoöl. Ser.

## ALTA MIRA COTTON-TAIL.

- 1-2. Adult ♂ Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
3. Adult — Coll. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
4. Adult ♂ Coll. Valles Estado, State of San Luis Potosi, Mexico. G. F. Breninger.

g. *Lepus floridanus aztecus* (Allen).

*Lepus sylvaticus aztecus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 188.

*Lepus floridanus aztecus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 418. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 344. Zoöl. Ser.

## TEHUANTEPEC COTTON-TAIL.

1. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
2. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.



3-7. Adult ♂ Pres. San Felipe, Yucatan, Mexico. C. B. Cory.

*h. Lepus floridanus subcinctus* Miller.

*Lepus floridanus subcinctus* Miller, Proc. Acad. Nat. Scien. Phil., 1899, p. 386. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 417, fig. 80. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 344. Zoöl. Ser.

MICHOACAN COTTON-TAIL.

1. Adult ♂ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.
2. Adult ♀ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

*i. Lepus floridanus persultator* Elliot.

*Lepus floridanus persultator* Elliot, Pub. Field Columb. Mus., III, 1903, p. 147. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 418. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 345. Zoöl. Ser.

PUEBLA COTTON-TAIL.

1. Adult — Type. Coll. Puebla, State of Puebla, Mexico. F. E. Lutz.

*j. Lepus floridanus holzneri* (Mearns).

*Lepus sylvaticus holzneri* Mearns, Proc. U. S. Nat. Mus., 1896, p. 554.

*Lepus floridanus rigidus* Mearns, Proc. U. S. Nat. Mus., 1896, p. 555. (footnote.)

*Lepus holzneri* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 284. Zoöl. Ser.

*Lepus durangæ* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1903, p. 609. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 424, Index, p. XI. Zoöl. Ser.

*Lepus floridanus holzneri* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 419. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 345. Zoöl. Ser.

HOLZNER'S COTTON-TAIL.

1. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
2. Juv. ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

637. *Lepus sanctidiegi* (Miller).

*Lepus floridanus sanctidiegi* Miller, Proc. Acad. Nat. Scien. Phil., 1899, p. 389.

*Lepus auduboni sanctidiegi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 283. Zoöl. Ser.

*Lepus sanctidiegi* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 422. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 345. Zoöl. Ser.

SAN DIEGO COTTON-TAIL.

1-2. Adult ♂ Coll. El Alamo, Lower California, Mexico. E. Heller.

3-5. Adult ♀ Coll. El Alamo, Lower California, Mexico. E. Heller.

6. Adult ♂ Coll. San Tomas, Lower California, Mexico. E. Heller.

7-11. Adult ♂ P. Elsinore, California. J. Rowley.

12. Adult ♀ P. Elsinore, California. J. Rowley.

13. Adult ♂ P. Los Angeles, California. J. Rowley.

14. Adult ♀ P. Los Angeles, California. J. Rowley.

15. Adult ♀ Exch. Dulzura, California. Am. Mus. Nat. Hist. N. Y. C. H. Marsh.

16. Adult ♂ Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.

17. Adult ♀ Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.

638. *Lepus laticinctus* Elliot.

*Lepus laticinctus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 254. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 346. Zoöl. Ser.

BROAD-BANDED COTTON-TAIL.

1-3. Adult ♂ Coll. Fort Tejon, California. E. Heller.

4-5. Adult ♀ Coll. Fort Tejon, California. E. Heller.

6-9. Adult ♂ Type and paratypes. Coll. Oro Grande, California. E. Heller.

10. Adult ♀ Paratype. Coll. Oro Grande, California. E. Heller.

11. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.

a. *Lepus laticinctus. rufipes* Elliot.

*Lepus laticinctus rufipes* Elliot, Pub. Field Columb. Mus., III, 1903, p. 254. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 346. Zoöl. Ser.

RUSSET-FOOTED COTTON-TAIL.

1-6. Adult ♂ Type and paratypes. Coll. Furnace Creek, Death Valley, California. E. Heller.

- 7-9. Adult ♀ Paratypes. Coll. Furnace Creek, Death Valley, California. E. Heller.

*b. Lepus laticinctus perplicatus* Elliot.

*Lepus laticinctus perplicatus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 255. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 347. Zoöl. Ser.

MIXED COTTON-TAIL.

1. Adult ♂ Type. Coll. Hannopee Cañon, Panamint Mountains, California. E. Heller.
- 2-5. Adult ♀ Coll. Bryan Mine, Coso Mountains, California. E. Heller.
6. Juv. ♂ Coll. Hot Springs, Mt. Whitney, California. E. Heller.
7. Adult ♀ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.

**639. *Lepus veræcrucis* Thomas.**

*Lepus veræcrucis* Thomas, Proc. Zoöl. Soc., 1890, p. 74, pl. VII. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 420. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 347. Zoöl. Ser.

VERA CRUZ COTTON-TAIL.

- 1-2. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.
- 3-4. Juv. ♀ Coll. Mt. Orizaba, State of Vera Cruz, Mexico. Heller & Barber.
5. Juv. ♂ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.

**640. *Lepus insolitus* Allen.**

*Lepus insolitus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 189. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 421. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 348. Zoöl. Ser.

PLAINS COTTON-TAIL.

- 1-2. Adult ♂ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
- 3-5. Adult ♀ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
6. Adult — P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
7. Juv. — P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.

**641. *Lepus superciliaris* Allen.**

*Lepus (Sylvilagus) superciliaris* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 196.

*Sylvilagus superciliaris* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1904, p. 445.

BONDA COTTON-TAIL.

1-2. Adult ♂ Paratypes. P. Bonda, Colombia, South America. H. H. Smith.

3-6. Adult ♀ Paratypes. P. Bonda, Colombia, South America. H. H. Smith.

642. *Lepus nuttalli* Bachman.

*Lepus nuttalli* Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 345, pl. 22. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 284. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 425. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 348. Zoöl. Ser.

NUTTALL'S COTTON-TAIL.

1. Adult ♂ P. Alberta, Canada. G. F. Dippie.
2. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.
3. Adult ♀ Exch. Indian Reservation, Utah. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
- 4-7. Adult ♂ P. Rockvale, Colorado. C. K. Mason.
8. Adult ♀ P. Rockvale, Colorado. C. K. Mason.
9. Adult — P. Quenda, Colorado. C. K. Mason.
10. Adult ♀ P. Greenhorn Mts., Colorado. C. K. Mason.
11. Adult — P. Fremont County, Colorado. C. K. Mason.

643. *Lepus baileyi* Merriam.

*Lepus baileyi* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 148. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 284. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 349. Zoöl. Ser.

BAILEY'S COTTON-TAIL.

1. Adult ♂ P. Billings, Montana. E. S. Thompson.
2. Adult ♀ P. Billings, Montana. E. S. Thompson.

644. *Lepus grangeri* (Allen).

*Lepus sylvaticus grangeri* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1895, p. 264.

*Lepus grangeri* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1896, p. 246. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 285. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 349. Zoöl. Ser.

GRANGER'S COTTON-TAIL.

1. Adult ♂ Exch. Battle Creek, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.



2. Juv. ♂ Exch. Cheyenne Reservation, South Dakota. Am. Mus. Nat. Hist. N. Y. W. W. Granger.

**645. *Lepus arizonæ* (Allen).**

*Lepus sylvaticus* var. *arizonæ* Allen, N. Am. Rod., 1877, p. 332.

*Lepus arizonæ* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 285. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 423. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 349. Zoöl. Ser.

**ARIZONA COTTON-TAIL.**

1. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
- 2-4. Adult ♀ P. S-B. Ranch, Arizona. W. W. Price.
5. Adult ♀ P. Fairbank, Arizona. W. W. Price.
- 6-7. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.
- 8-10. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.
11. Adult — P. Fort Lowell, Arizona. W. W. Price.
- 12-13. Adult ♀ P. Mt. Siegel, Nevada. W. W. Price.
14. Juv. ♀ P. Mt. Siegel, Nevada. W. W. Price.
15. Adult ♂ P. Anderson's Ranch, Nevada. W. W. Price.
16. Juv. ♂ P. Anderson's Ranch, Nevada. W. W. Price.
- 17-18. Adult ♀ P. Anderson's Ranch, Nevada. W. W. Price.
19. Juv. ♀ P. Huachuca Mts., Arizona. W. W. Price.
- 20-21. Juv. ♀ P. Chiricahua Mts., Arizona. W. W. Price.

**a. *Lepus arizonæ pinetis* (Allen).**

*Lepus sylvaticus pinetis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 348.

*Lepus grangeri pinetis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 285. Zoöl. Ser.

*Lepus arizonæ pinetis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 350. Zoöl. Ser.

**PINE WOOD COTTON-TAIL.**

- 1-2. Adult ♂ P. Boulder, Colorado. R. T. Young.

**b. *Lepus arizonæ major* Mearns.**

*Lepus arizonæ major* Mearns, Proc. U. S. Nat. Mus., 1896, p. 557.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 286.

Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 423. Zoöl. Ser. *Id.* Check-L. Mamm.

N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 350. Zoöl. Ser.

**GREATER DESERT COTTON-TAIL.**

1. Adult ♂ Exch. Fort Verde, Yavapai County, Arizona. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

2. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.

c. *Lepus arizonæ minor* Mearns.

*Lepus arizonæ minor* Mearns, Proc. U. S. Nat. Mus., 1896, p. 557. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 286. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 423. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 350. Zoöl. Ser.

LESSER DESERT COTTON-TAIL.

1. Adult ♀ Exch. Colorado Springs, Colorado. Am. Mus. Nat. Hist. N. Y. C. A. Smith.

646. *Lepus graysoni* Allen.

*Lepus graysoni* Allen, N. Am. Rod., 1777, p. 347. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 426. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 351. Zoöl. Ser.

GRAYSON'S COTTON-TAIL.

- 1-2. Adult ♀ P. Tres Marias Islands, Mexico. A. Forrer.

Subgenus C. *Microlagus*. Short-tailed Hares.

647. *Lepus bachmani* Waterhouse.

*Lepus bachmani* Waterh., Proc. Zoöl. Soc., 1838, p. 103. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 429. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 352. Zoöl. Ser. *Lepus trowbridgii* Baird, Journ. Acad. Nat. Scien. Phil., 1855, p. 333.

*Lepus floridanus bachmani* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 281. Zoöl. Ser.

BACHMAN'S COTTON-TAIL.

1. Adult ♂ P. Portola, California. W. W. Price.
2. Adult ♀ P. Portola, California. W. W. Price.
- 3-4. Adult ♂ P. Alum Rock Park, California. W. W. Price.
- 5-6. Adult ♀ P. Alum Rock Park, California. W. W. Price.
7. Adult ♂ P. Mt. Hamilton, California. W. W. Price.
- 8-9. Adult ♀ P. Mt. Hamilton, California. W. W. Price.
10. Juv. ♀ P. Mt. Hamilton, California. W. W. Price.
11. Adult ♂ P. Snow Mts., California. W. W. Price.
12. Adult ♀ P. Carmel River, California. W. W. Price.
- 13-14. Adult ♂ Coll. Nicasio, California. E. Heller.

- 15. Adult ♀ Coll. Nicasio, California. E. Heller.
- 16-17. Adult ♂ Coll. Petaluma, California. E. Heller.
- 18. Adult ♂ Coll. Mendocino, California. E. Heller.
- 19. Adult ♂ Coll. Point Reyes, California. E. Heller.
- 20-21. Adult ♂ Coll. Eureka, California. E. Heller.
- 22. Adult ♀ Coll. Eureka, California. E. Heller.
- 23. Adult ♂ P. Corpus Christi, Texas. G. K. Cherrie.
- 24. Adult ♀ P. Corpus Christi, Texas. G. K. Cherrie.
- 25-26. Juv. ♀ P. Big Trees, Santa Cruz, California. C. K. Worthen.

*a. Lepus bachmani ubericolor* Miller.

*Lepus bachmani ubericolor* Miller, Proc. Acad. Nat. Scien. Phil., 1899, p. 383. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 352. Zoöl. Ser.

*Lepus floridanus ubericolor* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 282. Zoöl. Ser.

RICH-COLORED COTTON-TAIL.

- 1-2. Adult ♂ Coll. Requa, California. E. Heller.
- 3-6. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
- 7. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- 8-10. Adult ♂ Coll. Florence, Oregon. E. Heller.
- 11-14. Adult ♀ Coll. Florence, Oregon. E. Heller.
- 15. Adult ♂ Topotype. Coll. Beaverton, Oregon. E. Heller.
- 16-19. Adult ♀ Topotypes. Coll. Beaverton, Oregon. E. Heller.

**648. *Lepus cinerascens* Allen.**

*Lepus cinerascens* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 159. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 287, pl. xxvii. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. I, 1904, p. 429, fig. 82. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 352. Zoöl. Ser.

ASH-COLORED COTTON-TAIL.

- 1-2. Adult ♂ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 3-7. Adult ♀ Coll. Rosarito, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 8. Adult ♂ Coll. St. Eulalia, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 9. Adult ♀ Coll. Trinidad, San Pedro Martir Mts., Lower California, Mexico. E. Heller.
- 10. Adult ♀ Coll. Salado River Cañon, San Pedro Martir Mts., Lower California, Mexico. E. Heller.



11-13. Adult ♂ Coll. San Quentin, Lower California, Mexico.  
E. Heller.

14-18. Adult ♀ Coll. San Quentin, Lower California, Mexico.  
E. Heller.

19. Juv. ♂ P. San Antonio, California. W. W. Price.

20-22. Juv. ♀ P. San Antonio, California. W. W. Price.

**649. *Lepus peninsularis* Allen.**

*Lepus peninsularis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1898,  
p. 144. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M.  
Pub., IV, Pt. 1, 1904, p. 430. Zool. Ser. *Id.* Check-L. Mamm.  
N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 353.  
Zool. Ser.

**LOWER CALIFORNIA COTTON-TAIL.**

1. Adult ♀ P. La Paz, Lower California, Mexico. A. Forrer.

**Subgenus D. *Oryctolagus*.**

**650. *Lepus cuniculus* Linnæus.**

*Lepus cuniculus* Linn., Syst. Nat., 1, 1766, p. 77. Waterhouse,  
Mamm., II, 1848, p. 64.

**EUROPEAN RABBIT.**

1. Adult ♀ P. Brunswick, Germany. J. A. Loring.

**Subgenus E. *Macrotolagus*. Jack Rabbits.**

**651. *Lepus alleni* Mearns.**

*Lepus alleni* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p.



FIG. XL. *LEPUS ALLENI*. ALLEN'S JACK RABBIT.



294. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 288. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 433, fig. LVIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 353. Zoöl. Ser.

#### ALLEN'S JACK RABBIT.

- 1-3. Adult ♂ P. Fort Lowell, Arizona. W. W. Price.  
4-6. Adult ♀ P. Fort Lowell, Arizona. W. W. Price.  
7-8. Adult ♂ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.  
9-10. Adult ♀ P. Cerro Blanco, State of Sonora, Mexico. J. Rowley.

#### 652. *Lepus callotis* Wagler.

- Lepus callotis* Wagl., Nat. Syst. Amph., 1830, p. 23. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 288. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 431. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 353. Zoöl. Ser.  
*Lepus nigricaudatus* Bennett, Proc. Zoöl. Soc., 1833, p. 41.  
*Lepus mexicanus* Rich., 6th Rep. Brit. Assoc., 1837, p. 150.

#### BEAUTIFUL-EARED JACK RABBIT.

1. Adult — Coll. Puebla, State of Puebla, Mexico. F. E. Lutz.  
*a.* *Lepus callotis flavigularis* (Wagner).  
*Lepus flavigularis* Wagn., Schreb. Säugth., Suppl., IV, 1844, p. 107.  
*Lepus callotis flavigularis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 353, Syn. *L. callotis*; Appendix, p. 543. Zoöl. Ser.

#### YELLOW-THROATED JACK RABBIT.

- 1-12. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.  
11-13. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

#### 653. *Lepus merriami* Mearns.

- Lepus texianus*! Aud. & Bachm., Quad. N. Am., III, 1853, p. 156, pl. CXXXIII. (nec Waterhouse.)  
*Lepus merriami* Mearns, Proc. U. S. Nat. Mus., 1896, p. 444. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 289, pl. XXVII. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 432. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 354. Zoöl. Ser.

## MERRIAM'S JACK RABBIT.

- 1-3. Adult ♀ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.
4. Adult — Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.

654. *Lepus melanotis* Mearns.

*Lepus melanotis* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 297. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 290. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 355. Zoöl. Ser.

## BLACK-EARED JACK RABBIT.

1. Adult ♂ Coll. White Horse Spring, Oklahoma Territory. T. Surber.
  2. Adult ♂ Exch. Long Island, Kansas. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
  3. Adult ♂ P. Lawrence, Kansas. J. Rowley.
  4. Adult ♀ P. Lawrence, Kansas. J. Rowley.
- a. *Lepus texensis eremicus* (Allen).

*Lepus texianus! eremicus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1894, p. 347.

*Lepus texensis eremicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 291. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 435, pl. xli. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 355. Zoöl. Ser.

## DESERT JACK RABBIT.

1. Adult ♂ P. Fort Lowell, Arizona. Loye Miller.
  2. Adult ♀ P. Fort Lowell, Arizona. Loye Miller.
  3. Adult ♂ Paratype. P. Fairbank, Arizona. W. W. Price.
  4. Adult ♀ Paratype. P. Fairbank, Arizona. W. W. Price.
  5. Adult ♂ Exch. Neutral Strip, Indian Territory. Am. Mus. Nat. Hist. N. Y. Richardson & Rowley.
- b. *Lepus texensis deserticola* (Mearns).

*Lepus texianus! deserticola* Mearns, Proc. U. S. Nat. Mus., 1896, p. 564.

*Lepus texensis deserticola* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 291. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 437. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 356. Zoöl. Ser.

## WESTERN DESERT JACK RABBIT.

1. Adult ♂ Coll. Phoenix, Arizona. G. F. Breninger.

2. Adult ♀ Coll. Phoenix, Arizona. G. F. Breninger.
3. Adult ♂ Coll. Whitewater, California. E. Heller.
4. Adult ♂ Coll. Copper City, California. E. Heller.
5. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.
6. Adult ♂ Coll. Coal Kilns, Panamint Mts., California. E. Heller.
- 7-8. Adult ♂ Coll. Cañon Esperanza, Lower California, Mexico. E. Heller.
9. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.
10. Adult ♀ Coll. San Felipe, Lower California, Mexico. E. Heller.

**655. *Lepus californicus* Gray.**

*Lepus californica* Gray, Charlesw. Mag. Nat. Hist., 1, 1837, p. 586.

*Lepus californicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 291. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 437. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 357. Zoöl. Ser.

**CALIFORNIA JACK RABBIT.**

1. Adult ♂ Exch. Laguna Mts., California. Am. Mus. Nat. Hist. N. Y. F. X. Holzner.
- 2-3. Juv. ♂ P. Snow Mountains, California. W. W. Price.
- 4-5. Adult ♂ P. Elsinore, California. J. Rowley.
- 6-8. Adult ♀ P. Elsinore, California. J. Rowley.
9. Adult ♂ P. Upper Klamath Lake, Oregon. A. Forrer.
- 10-11. Adult ♀ P. Upper Klamath Lake, Oregon. A. Forrer.
12. Adult ♀ Coll. Trinidad, Lower California, Mexico. E. Heller.
13. Adult ♂ Coll. Parral, Lower California, Mexico. E. Heller.
14. Adult ♀ Coll. Parral, Lower California, Mexico. E. Heller.
15. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
- 16-17. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.
18. Adult — P. Point Reyes, California. Ward's Nat. Scien. Establ., Rochester, N. Y.
19. Juv. ♂ P. Folsom City, California. A. Forrer.

**a. *Lepus californicus xanti* Thomas.**

*Lepus californicus xanti* Thomas, Ann. Mag. Nat. Hist., 7th Ser., 1, 1898, p. 45. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 438. Zoöl. Ser. *Id.* Check-L.

Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 357. Zoöl. Ser.

**LOWER CALIFORNIA JACK RABBIT.**

1. Adult ♂ P. La Paz, Lower California, Mexico. A. Forrer.
2. Adult ♀ P. La Paz, Lower California, Mexico. A. Forrer.

**656. *Lepus martirensis* Stowell.**

*Lepus martirensis* Stowell, Proc. Calif. Acad. Scien., 2d Ser., v, 1895, p. 51. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 1, 1904, p. 439. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 358. Zoöl. Ser.

**SAN PEDRO MARTIR JACK RABBIT.**

- 1-2. Adult ♂ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 3-4. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
5. Adult ♀ Coll. Rosarito, Lower California, Mexico. E. Heller.

**Subgenus F. *Lepus*. Changeable Hares.**

**657. *Lepus europæus* Pallas.**

*Lepus europæus* Pall., Nov. Spec. Quad. Glir. Ord., 1778, p. 30.  
*Lepus timidus* Schreb., Säugth., IV, 1792, pl. 233. (nec Linn.)

**EUROPEAN HARE.**

1. Adult — P. Germany. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — P. Switzerland. Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Adult ♂ P. Brunswick, Germany. J. A. Loring.
4. Adult ♀ P. Brunswick, Germany. J. A. Loring.
- 5-6. Adult — P. Brunswick, Germany. J. A. Loring.
- 7-8. Adult — P. Europe. C. K. Worthen.

**658. *Lepus somalensis* Heuglin.**

*Lepus somalensis* Heugl., Nov. Act. Acad. Cæs. Leop.-Carol., XXVIII, 1861, p. 5.

**SOMALI HARE.**

1. Adult — Coll. Silo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.
2. Juv. — Coll. Silo Plain, Haud, Somaliland, E. Africa. D. G. Elliot.



**659. *Lepus arcticus* Ross.**

*Lepus arcticus* Ross, Voy. Arct. Reg., II, 1819, Append. IV, p. 151.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 270.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 358. Zoöl. Ser.

*Lepus glacialis* Leach, in Ross's Voy. Arct. Reg., II, 1819, Append. IV, p. 170.

*Lepus timidus* var. *arcticus* Allen, Mon. N. Am. Rod., 1877, p. 288.

**POLAR HARE.**

1-2. Adult ♂ P. Calgary, Alberta, Canada. G. F. Dippie.

3. Adult ♂ P. Pine Creek, Alberta, Canada. G. F. Dippie.

4. Adult ♀ P. Carmen, Manitoba, Canada. G. F. Dippie.

**660. *Lepus grœnlandicus* Rhoads.**

*Lepus grœnlandicus* Rhoads, Amer. Nat., XXX, 1896, p. 236. El-

liot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 271.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 359. Zoöl. Ser.

**GREENLAND HARE.**

1-2. Adult ♂ P. Bache Peninsula, Greenland. S. Warmbath.

3-4. Adult ♀ P. Bache Peninsula, Greenland. S. Warmbath.

**661. *Lepus americanus* Erxleben.**

*Lepus americanus* Erxl., Syst. Reg. Anim., I, 1777, p. 330. Elliot,

Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 273. Zoöl.

Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 360. Zoöl. Ser.

*Lepus hudsonius* Pall., Nov. Spec. Quad. Glir. Ord., 1778, p. 30.

*Lepus nanus* Schreb., Säugth., IV, 1792, p. 881, pl. 234B.

*Lepus borealis* Schinz, Synop., II, 1845, p. 286.

*Lepus campestris* Hayden, Amer. Nat., III, 1869, p. 115. (Part.)

**AMERICAN HARE.**

1. Adult ♂ Exch. Sherburne, Vermont. Am. Mus. Nat. Hist. N. Y.

2. Adult ♂ P. Orillia, Ontario, Canada. G. F. Dippie.

3. Adult ♀ Exch. Andover, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.

4. Adult ♂ Exch. Andover, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. A. Lockwood.

5. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.

6. Adult ♂ P. Calgary, Alberta, Canada. G. F. Dippie.

7. Adult ♂ Coll. Park Siding, Michigan. C. Brandler.

8. Adult ♀ Coll. Park Siding, Michigan. C. Brandler.

9. Adult — P. Wyoming. Ward's Nat. Scien. Establ., Rochester, N. Y.

*a. Lepus americanus phæonotus* Allen.

*Lepus americanus phæonotus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1899, p. 11. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 273. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 360. Zoöl. Ser.

WESTERN HARE.

1. Adult ♂ P. Minnesota.

*b. Lepus americanus bairdi* (Hayden).

*Lepus bairdii* Hayden, Amer. Nat., 111, 1869, p. 115.

*Lepus americanus bairdi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 274. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 361.

BAIRD'S HARE.

1. Adult ♂ P. Eagle County, Montana. E. S. Thompson.
2. Adult ♂ P. Silver Lake Mine, Boulder County, Colorado. R. T. Young.
- 3-4. Adult ♀ P. Silver Lake Mine, Boulder County, Colorado. R. T. Young.

*c. Lepus americanus washingtoni* (Baird).

*Lepus washingtonii* Baird, Proc. Acad. Nat. Scien. Phil., 1855, p. 333, pl. 15.

*Lepus americanus washingtoni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 274. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 361. Zoöl. Ser.

WASHINGTON HARE.

1. Adult — Coll. Johnson's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.
2. Adult — Coll. Boulder Creek, Elwah River, Clallam County, Washington. D. G. Elliot.
- 3-6. Juv. ♀ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
7. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
- 8-10. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
11. Juv. ♂ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.

**662. *Lepus campestris* Bachman.**

*Lepus campestris* Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 349. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 277. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 362. Zoöl. Ser.

## PLAINS HARE.

1. Adult ♀ Coll. Braddock, North Dakota. W. E. Snyder.
2. Adult ♀ P. Gardiner, Montana. E. S. Thompson.
- 3-4. Adult ♀ Exch. Perch, Nebraska. Am. Mus. Nat. Hist. N. Y. W. W. Granger.
5. Adult — P. "Kansas." Ward's Nat. Scien. Establ., Rochester, N. Y.

*a. Lepus campestris townsendi* (Bachman).

*Lepus townsendi* Bachm., Jour. Acad. Nat. Scien. Phil., 1839, p. 90.

*Lepus campestris townsendi* Merr., Proc. Biol. Soc. Wash., XVII, 1904, p. 132. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 363. Zoöl. Ser.

## TOWNSEND'S HARE.

1. Adult ♂ P. Upper Klamath Lake, Oregon. A. Forrer.
- 2-4. Adult ♀ P. Upper Klamath Lake, Oregon. A. Forrer.

*b. Lepus campestris sierræ* Merriam.

*Lepus campestris sierræ* Merr., Proc. Biol. Soc. Wash., XVII, 1904, p. 132. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 363. Zoöl. Ser.

## SIERRA HARE.

1. Adult ♀ Coll. Mt. Whitney, California. E. Heller.

Order VII. **Carnivora. Carnivores.**

Family I. **Felidæ. Cats.**

Genus 185. **Felis.**

**Felis** Linn., Syst. Nat., I, 1758, p. 41; I, 1766, p. 60. Type *Felis catus* Linnæus.

*Linx* (sic) Frisch, Das Nat.-Syst. vierfüss. Thiere, in Tabellen, 12, Tab. Gen., 1775.

*Lynx* Kerr, Anim. Kingd., Syst. Catal., Mamm., I, 1792, pp. 41, 155.

*Lyncæus* Gray, Lond. Med. Repos., xv, 1821, p. 302.

*Puma* Jard., Nat. Libr., Mamm., II, 1834, pp. 266.

*Lynchus* Jard., Nat. Libr., Mamm., II, 1834, pp. 274, 275.

*Leopardus* Gray, Ann. Mag. Nat. Hist., x, 1842, p. 260. (nec 1867.)

*Herpailurus* Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, p. 385.

*Jaguarinus* Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, pp. 386, 390.

*Lynchailurus* Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, pp. 386, 390.

*Noctifelis* Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, pp. 386, 390.

*Oncifelis* Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, pp. 386, 390.

*Leopardus* Gray, Proc. Zoöl. Soc., 1867, p. 263. (nec 1842.)

*Margay* Gray, Proc. Zoöl. Soc., 1867, p. 271.

*Pardalis* Gray, Proc. Zoöl. Soc., 1867, p. 272.

*Cervaria* Gray, Proc. Zoöl. Soc., 1867, p. 276.

Subgenus A. **Leopardus. Tigers, Jaguars, etc.**

663. **Felis tigris** Linnæus.

*Felis tigris* Linn., Syst. Nat., I, 1758, p. 41; I, 1766, p. 61. Elliot, Mon. Felidæ, 1883, pl. III.

*Felis tigris* var. *a mongolica* Less., Nouv. Tab. Regn. Anim., 1842, p. 50.

*Felis tigris* var. *b nigra* Less., Nouv. Tab. Regn. Anim., 1842, p. 50.



*Felis tigris* var. *c alba* Less., Nouv. Tab. Regn. Anim., 1842, p. 50.

*Tigris regalis* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 40.

*Tigris striatus* Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, p. 386.

*Tigris regalis alba* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 448.

*Tigris regalis hybrida* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 450.

*Tigris sondaica* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 454.

*Tigris longipilis* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 455.

#### THE TIGER.

1-2. Adult ♂ & ♀ P. "Amurland." Ward's Nat. Scien. Establ., Rochester, N. Y.

#### 664. *Felis uncia* Schreber.

*Felis uncia* Schreb., Säugth., III, 1778, p. 386, pl. c. Elliot, Mon. Felidæ, 1883, pl. iv, text.

*Felis pardus* Pall., Zoog. Rosso-Asiat., I, 1811, p. 17. (nec Linn.)

*Felis irbis* Ehrenb., Ann. Scien. Nat., XXI, 1830, p. 394.

*Felis uncoides* Hodgs., Horsf. Ann. Nat. Hist., XVI, 1855, p. 105.

*Uncia irbis* Gray, Proc. Zool. Soc., 1867, p. 262, fig. 1.

#### SNOW LEOPARD.

1. Adult — P. "Tibet." Ward's Nat. Scien. Establ., Rochester, N. Y.

#### 665. *Felis pardus* Linnæus.

*Felis pardus* Linn., Syst. Nat., I, 1758, p. 41; I, 1766, p. 61. Elliot, Mon. Felidæ, 1883, pls. vi, vii.

*Felis leopardus* Erxleb., Syst. Regn. Anim., 1777, p. 509, sp. 5.

*Felis panthera* Pall., Zoog. Rosso-Asiat., I, 1811, p. 18.

*Felis melas* Less., Mon. Mamm., 1827, p. 188.

*Felis antiquorum* Fisch., Syn. Mamm., 1829, p. 566.

*Leopardus varius* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 40, sp. a-h.

*Felis poecilura* Valenciennes, Compt. Rend., XLII, 1856, p. 1036.

*Leopardus japonensis* Gray, Proc. Zool. Soc., 1862, p. 262, pl. XXXIII; 1867, p. 264.

*Leopardus perniger* Hodgs., Cat. Mamm. & Birds Nepal., 2d ed., 1863, p. 3.

*Felis fontanieri* A. Milne-Edw., Ann. Scien. Nat., Sér. 5, VIII, 1867, p. 375.

*Leopardus pardus* Gray, Proc. Zool. Soc., 1867, p. 263.

*Leopardus chinensis* Gray, Proc. Zool. Soc., 1867, p. 264, fig. 2.  
(nec Gray, 1842.)

*Panthera nimr* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868,  
p. 461.

*Panthera nimr niger* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII,  
1868, p. 466.

*Panthera antiquorum* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII,  
1868, p. 468.

*Panthera leopardus* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII,  
1868, pp. 473, 478.

*Panthera variegata* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII,  
1868, p. 477.

#### LEOPARD.

1. Adult ♀ Coll. Hersi Barri, Ogaden, East Africa. D. G. Elliot.
2. Adult ♂ Melanistic form. P. Java. Ward's Nat. Scien. Establ.,  
Rochester, N. Y.



FIG. XLI. FELIS ONCA. JAGUAR.

1. *Felis onca*; 2. *Felis o. bernardezi*.

*a. Felis onca hernandezii* (Gray).

*Leopardus hernandezii* Gray, Proc. Zool. Soc., 1857, p. 278.

*Felis onca* Elliot, Mon. Felidæ, 1883, pl. v, rear figure. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 294. Zool. Ser. (Part.)

*Felis onca hernandezii* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 446. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 365. Zool. Ser.

HERNANDEZ'S JAGUAR.

1. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

**666. *Felis pardalis* Linnæus.**

*Felis pardalis* Linn., Syst. Nat., I, 1758, p. 42; I, 1766, p. 62. Elliot, Mon. Felidæ, 1883, pl. XVIII. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 294. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 447. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 366. Zool. Ser.

OCELOT. *Manigordo* in Costa Rica.

1. Adult — Coll. Sanborn, State of Vera Cruz, Mexico. S. E. Meek.
2. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
3. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

**667. *Felis catenata* H. Smith.**

*Felis catenata* H. Smith, Griff. Anim. Kingd., v, 1827, p. 169.

STRIPED OCELOT.

1. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
2. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

**668. *Felis tristis* A. Milne-Edwards.**

*Felis tristis* A. Milne-Edw., Research. Mamm., 1871, p. 223, pl. 31d. Elliot, Mon. Felidæ, 1883, pl. XXIII.

CHINESE CAT.

1. Adult — Exch. Tsekou, Tibet. Mus. Hist. Nat. Paris. Soubié.

**669. *Felis scripta* A. Milne-Edwards.**

*Felis scripta* A. Milne-Edwards, Nouv. Archiv. Mus. Hist. Nat. Paris, VII, Bull., 1871, p. 92. Elliot, Mon. Felidæ, 1883, pl. XXIV.



## TIBETAN CAT.

1. Adult — Exch. Ta-tsien-lou, Stezechuan, China. Mus. Hist. Nat. Paris. Biet.

670. *Felis tigrina* Erxleben.

*Felis tigrina* Erxl., Syst. Regn. Anim., 1, 1777, p. 517. Elliot, Mon. Felidæ, 1883, pl. xix. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 449. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 367. Zoöl. Ser.

*Felis mitis* F. Cuv., Hist. Nat. Mamm., II, 1820, pl. 137.

*Felis brasiliensis* F. Cuv., Hist. Nat. Mamm., II, 1820, pl. 139.

*Felis macroura* Max., Beitr. Naturg. Bras., II, 1826, p. 371.

*Felis chati* Griff., Anim. Kingd., II, 1827, p. 479.

*Felis elegans* Less., Cent. Zool., 1830, p. 69, pl. 21.

THE MARGAY. *Cauzel* in Costa Rica.

1. Adult — P. "Rio Janeiro," South America. Ward's Nat. Scien. Establ., Rochester, N. Y.

671. *Felis javanensis* Desmarest.

*Felis javanensis* Desm., Nouv. Dict. Hist. Nat., VI, 1816, p. 115.

Elliot, Mon. Felidæ, 1883, pl. xxviii.

*Felis sumatrana* Horsf., Zoöl. Research., 1824, pl.

*Felis undata* Less., Man. Mamm., 1827, p. 188.

*Felis minuta* Temm., Mon. Mamm., I, 1827, p. 130.

*Felis chinensis* Gray, Ann. Mag. Nat. Hist., 1837, p. 577.

*Leopardus javanensis* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 43.

*Leopardus chinensis* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 43.

*Leopardus reevesi* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 43.

*Felis (Prionailurus) minuta* Severtz., Rev. Mag. Zool., 2me Sér., 1858, p. 387.

*Felis benzalensis* var. Blyth, Proc. Zoöl. Soc., 1863, p. 184.

*Felis servalina* Gray, Proc. Zoöl. Soc., 1867, p. 401. (nec Ogilby.)

*Panthera sumatrana* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 491.

*Panthera javanensis* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 493.

*Panthera undata* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 496.

*Panthera smithi* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 499.

*Panthera augulifera* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 500.



*Panthera chinensis* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 509.

*Felis herschelii* Gray, Cat. Carn. Pachyd. & Edent. Mamm. Brit. Mus., 1869, p. 68.

LITTLE RED-SPOTTED CAT. *Tamaral*, Visayan name.

1. Adult — P. Lawas Mountains, Borneo. A. Everett.

2. Adult — P. Kina Balu, Borneo. A. Everett.

## 672. *Felis serval* Erxleben.

*Felis serval* Erxl., Regn. Anim., 1777, p. 523. Elliot, Mon. Felidæ, 1883, pl. xxvi.

*Felis capensis* Gmel., Syst. Nat., 1, 1788, p. 81.

*Felis galeopardus* Desm., Mamm., 1820, p. 227.

*Chaus servalina* Gerv., Blainv. Osteol., t. 16.

*Felis senegalensis* Less., Mag. Zool., 1839, t. 10.

*Felis servalina* Ogilby, Proc. Zool. Soc., 1839, p. 4.

*Leopardus serval* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 40.

*Felis leptailurus serval* Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, p. 389.

*Galeopardus capensis* Fitzin., Sitzungsab. Akad. Wiss. Wien, 1869, p. 649.

*Galeopardus serval* Fitzin., Sitzungsab. Akad. Wiss. Wien, 1869, p. 651.

*Galeopardus senegalensis* Fitzin., Sitzungsab. Akad. Wiss. Wien, 1869, p. 657.

## THE SERVAL.

1. Adult — No record.

## 673. *Felis catus* Linnæus.

*Felis catus* Linn., Syst. Nat., 1, 1758, p. 42; 1, 1766, p. 62. Elliot, Mon. Felidæ, 1883, pl. xxx.

*Felis sylvestris* Schreb., Säugth., III, 1778, p. 397, Tab. cvi.

## WILD CAT.

1-2. Adult ♂ P. Bunarkaig, Aberdeenshire, Scotland. Henderson & Co.

3. Adult ♀ P. Bunarkaig, Aberdeenshire, Scotland. Henderson & Co.

Subgenus B. *Felis*. Lions, Pumas.

## 674. *Felis leo* Linnæus.

*Felis leo* Linn., Syst. Nat., 1, 1758, p. 41; 1, 1766, p. 60. Elliot, Mon. Felidæ, 1883, pl. 1.

- Felis barbarus* var.  $\alpha$  Fisch., Syn. Mamm., I, 1829, p. 197.  
*Felis senegalensis* var.  $\beta$  Fisch., Syn. Mamm., I, 1829, p. 197.  
*Felis persicus* var.  $\gamma$  Fisch., Syn. Mamm., I, 1829, p. 197.  
*Felis leo goojratensis* Smee, Trans. Zool. Soc., I, 1833, p. 165, pl. 24.  
*Leo gambianus* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 40.  
*Tigris leo* Severtz., Rev. Mag. Zool., 2me Sér., x, 1858, p. 388.  
*Leo nobilis* Gray, Proc. Zool. Soc., 1867, p. 263.  
*Leo capensis* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 432.  
*Leo guzeratensis* Fitzin., Sitzungsab. Akad. Wiss. Wien, LVIII, 1868, p. 443.

## LION.

1. Adult ♂ Coll. South of Toyo Plain, Somaliland, East Africa. D. G. Elliot.
  2. Juv. ♀ Coll. South of Toyo Plain, Somaliland, East Africa. D. G. Elliot.
  3. Adult ♂ P. Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.
  4. Adult ♀ P. Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.
  5. Adult ♀ P. Pungwe River, Portuguese E. Africa. McEwen & Cabot.
- a. *Felis concolor oregonensis* (Rafinesque).  
*Felix! oregonensis* Rafin., Atlantic Journal, I, 1832, p. 62.  
*Felis hippolestes* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 219.  
*Felis hippolestes olympus* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 220.  
*Felis hippolestes aztecus* Merr., Proc. Wash. Acad. Scien., III, 1901, p. 592.  
*?Felis aztecus browni* Merr., Proc. Biol. Soc. Wash., XVI, 1903, p. 73.  
*Felis concolor oregonensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 294. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 454, pls. XLIV, XLV. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 369. Zool. Ser.

## NORTHWESTERN PUMA.

1. Adult ♂ P. Colorado. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ P. Colorado. Ward's Nat. Scien. Establ., Rochester, N. Y.

- 3-4. Juv. — P. Colorado. Ward's Nat. Scien. Establ., Rochester, N. Y.
5. Adult ♀ P. Okanagan Valley, British Columbia, Canada. G. F. Dippie.
6. Adult — Pres. Montana. A. B. Shubert.
- 7-11. Adult — Pres. Colonia Garcia, State of Chihuahua, Mexico. V. S. Kennedy.
12. Adult — P. No history. C. E. Akeley.
13. Adult ♂ P. Colville Ind. Reserv., Washington. A. B. Shubert.

#### 675. *Felis cougar* Kerr.

- Felis cougar* Kerr, Anim. Kingd., 1792, p. 151. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 369. Zoöl. Ser.
- Felis pennsylvanica* Link, Beitr. Naturg., II, 1795, p. 90.
- Felis concolor floridana* Cory, Hunt. & Fish. Florida, 1896, p. 109.
- Felis coryi* Bangs, Proc. Biol. Soc. Wash., XIII, 1899, p. 15.
- Felis concolor* Auct., Eastern North America.

#### EASTERN PUMA.

1. Adult — Pres. Hapata Flats, North-East Lake, Okeechobee, Florida. C. B. Cory.

#### 676. *Felis jaguarondi* Fischer.

- Felis jaguarondi* Fisch., Zoogn., 1814, p. 228. Elliot, Mon. Felidæ, 1883, pl. XIII. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 295. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 451, fig. 83. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 367. Zoöl. Ser.

#### JAGUARONDI. *Leon monero*, *Leon miquero* in Costa Rica.

1. Adult — P. Texas. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ P. Cameron County, Texas. C. K. Worthen.

#### a. *Felis eyra apache* (Mearns).

- Felis eyra* Baird, Rep. U. S. & Mex. Bound. Surv., Mamm., 1859, p. 10, pl. II, fig. 1. (nec Fischer.)
- Felis apache* Mearns, Proc. Biol. Soc. Wash., XIV, 1901, p. 150.
- Felis eyra apache* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 453. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 368. Zoöl. Ser.

#### TAMAULIPAS EYRA. *Apache*, *Onza* in Mexico.

1. Adult — Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

**677. *Felis badia* Gray.**

*Felis badia* Gray, Proc. Zool. Soc., 1874, p. 322, pl. 49. Elliot, Mon. Felidæ, 1883, pl. xv.

**BORNEAN RED CAT.**

1. Adult — Melanistic form. P. Gunong Mulu, Borneo. E. Gerard & Sons.

**Subgenus C. *Lynx*. *Lynxes*.****678. *Felis canadensis* (Kerr).**

*Lynx canadensis* Kerr, Anim. Kingd., 1792, p. 32, desc. p. 157.

*Felis canadensis* Elliot, Mon. Felidæ, 1883, pl. xxxvii. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 295. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 370. Zool. Ser.

**CANADA LYNX.**

1. Adult — P. Ontario, Canada. Ward's Nat. Scien. Establ., Rochester, N. Y.

**a. *Felis canadensis mollipilosa* (Stone).**

*Lynx canadensis mollipilosa* Stone, Proc. Acad. Nat. Scien. Phil., 1900, p. 48.

*Felis canadensis mollipilosa* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 295. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 370. Zool. Ser.

**SOFT-FURRED LYNX.**

- 1-5. Adult — P. Sushitna River, Mt. McKinley Region, Alaska. C. F. Periolat.
6. Juv. — P. Sushitna River, Mt. McKinley Region, Alaska. C. F. Periolat.

**Subgenus D. *Cervaria*.****679. *Felis rufa* Gùldenstaedt.**

*Felis ruffa* (sic) Gùldenst., Nov. Comm. Acad. Imp. Scien. St. Pétersb., XX, 1776, p. 484.

*Felis rufa* Elliot, Mon. Felidæ, 1883, pl. xl. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 296. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 370. Zool. Ser.

**RED LYNX, WILD CAT.**

1. Adult — P. South Carolina. Ward's Nat. Scien. Establ., Rochester, N. Y.



2. Adult — P. Texas. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Felis rufa fasciata* (Rafinesque).

*Lynx fasciatus* Rafin., Am. Month. Mag., II, 1817, p. 46.

*Felis rufa fasciata* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 297. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 371. Zoöl. Ser.

BARRED LYNX.

1. Adult ♂ Coll. Barnes's Creek, Clallam County, Washington. D. G. Elliot.

b. *Felis rufa baileyi* (Merriam).

*Lynx baileyi* Merr., N. Am. Faun., No. 3, 1890, p. 79.

*Felis rufa baileyi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 297. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 459, figs. 84, LX. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 372. Zoöl. Ser.

BAILEY'S LYNX.

1-2. Adult — Exch. ———? Am. Mus. Nat. Hist. N. Y. E. A. Mearns.



FIG. XLII. FELIS R. BAILEYI. BAILEY'S LYNX.

- 3-4. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.  
 5. Adult — Coll. Huachuca Plains, Arizona. G. F. Breninger.  
 6-9. Adult — Pres. Casas Grandes, State of Chihuahua, Mexico. V. S. Kennedy.

c. *Felis rufa californica* (Mearns).

*Lynx rufus californicus* Mearns, Proc. U. S. Nat. Mus., xx, 1897, p. 458.

*Felis rufa californica* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 298. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 458. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 372. Zoöl. Ser.

CALIFORNIA LYNX.

1. Adult ♀ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.  
 2. Juv. ♀ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.

d. *Felis rufa floridana* (Rafinesque).

*Lynx floridanus* Rafin., Am. Month. Mag., II, 1817, p. 46.

*Felis rufa floridana* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 299. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 372. Zoöl. Ser.

FLORIDA LYNX.

1. Adult — Pres. Florida. C. B. Cory.

Genus 186: **Acinonyx.**

**Acinonyx** Brookes, Cat. Anat. & Zoöl. Mus. Joshua Brookes, Lond., 1828, p. 33. Type *Acinonyx venator* Brookes = *Felis jubata* Erxleben.

*Cynailurus* Wagl., Nat. Syst. Amphib., 1830, p. 30.

*Guepardus* Duvern., L'Inst. Paris, II, No. 51, 1834, p. 145.

*Cynofelis* Less., Nouv. Tabl. Règn. Anim., 1842, p. 48.

680. **Acinonyx jubatus** (Erxleben).

*Felis jubata* Erxl., Syst. Reg. Anim., 1777, p. 510.

*Cynailurus jubatus* Wagl., Nat. Syst. Amphib., 1830, p. 30. Elliot, Mon. Felidæ, 1883, pl. XLIII.

*Felis guttata* Less., Compl. Buff., I, 1838, p. 409.

*Cynofelis jubata* Less., Nouv. Tab. Règn. Anim., 1842, p. 49.

*Felis megabalia* Heugl., Zeit. Ges. f. Erdkunde, Berlin, III, 1868, p. 53.

*Cynailurus venaticus* Fitzin., Sitzungsab. Akad. Wiss. Wien, 1869.

*Felis lanea* Sclat., Proc. Zoöl. Soc., 1877, p. 532, pl. 55.

CHEETAH, HUNTING LEOPARD.

1. Adult ♂ Coll. Hullieh, Somaliland, East Africa. D. G. Elliot.
2. Adult ♀ Coll. Hullieh, Somaliland, East Africa. D. G. Elliot.
- 3-6. Juv. — Coll. Adadleh, Somaliland, East Africa. D. G. Elliot.

Family II. **Viverridæ. Mongooses, Civets.**

Subfamily I. **Cryptoproctinæ.**

Genus 187. **Cryptoprocta.**

**Cryptoprocta** Bennett, Proc. Zoöl. Soc., 1832, p. 46. Type *Cryptoprocta ferox* Bennett.

681. **Cryptoprocta ferox** Bennett.

*Cryptoprocta ferox* Bennett, Proc. Zoöl. Soc., 1832, p. 46.



FIG. XLIII. CRYPTOPROCTA FEROX. THE FOUSSA.

*Cryptoprocta typicus* A. Smith, S. Afr. Quart. Jour., II, p. 134.  
THE FOUSSA.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

### Genus 188. **Viverricula.**

**Viverricula** Hodg., Ann. Nat. Hist., I, 1838, p. 152. Type *Viverra indica* Geoffroy = *Viverra malaccensis* Gmelin.

#### 682. **Viverricula malaccensis** (Gmelin).

*Viverra malaccensis* Gmel., Syst. Nat., I, 1788, p. 92.

*Viverra leveriana* Shaw, Mus. Lever., II, 1796, p. 19.

*Viverra indica* Desm., Nouv. Dict. Hist. Nat., VII, 1817, p. 170.

*Viverra bengalensis* Gray, Illust. Ind. Zool., I, 1832, pl. IV.

*Viverra pallida* Gray, Proc. Zool. Soc., 1832, p. 63.

*Viverra rasse* Horsf., Zool. Research., 1821, pl.

#### MALACCA WEASEL.

1. Adult — P. Madagascar. E. Gerrard & Sons.

2. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

### Genus 189. **Genetta.**

**Genetta** Oken, Lehrb. Naturg., Zool., 3ter Theil, 2te Abth., 1816, p. 1010. Type *Viverra genetta* Linnæus.

#### 683. **Genetta senegalensis** (Fischer).

*Viverra senegalensis* Fisch., Syn. Mamm., 1829, p. 170.

*Genetta senegalensis* Gray, Proc. Zool. Soc., 1832, p. 63. *Id. Cat.*

Carniv. Pachyderm. & Edent. Mamm. Brit. Mus., 1869, p. 50.

#### SENEGAL GENET.

1. Juv. ♀ Coll. Higlileh, Ogaden, East Africa. D. G. Elliot.

#### 684. **Genetta tigrina** (Schreber).

*Viverra tigrina* Schreb., Säugth., III, 1778, p. 425, pl. cxv.

*Genetta abyssinica* Rüpp., Neu. Wirbelth. Abyss., 1835, p. 33.

#### TIGRINE GENET.

1. Adult ♀ P. Upper Shire River, British Central Africa. P. Rendall.



• 685. *Genetta aubryana* Pucheran.

*Genetta aubryana* Puch., Rev. Zool., III, 1855, p. 154.

AUBRY'S GENETTA.

1. Adult — P. Batuga, Cameroons, W. Africa. C. W. McCleary.

Genus 190. **Prionodon.**

\***Prionodon** Horsf., Zool. Res. in Java, No. 5, 1824. Type *Felis gracilis* Horsfield = *Viverra linsang* Hardwicke.

'*Priodonte*' F. Cuvier, Hist. Nat. Mamm., IV, 1822, livr. XXVIII, p. 2.

*Priodontes* F. Cuvier, in Less. Man. Mamm., 1827, p. 309.

*Linsang* Müll., Verhand. Natur. Geschied. Nederl. Besitt., Leiden, 1, 1839, p.

686. *Prionodon linsang* (Hardwicke).

*Viverra linsang* Hardw., Trans. Linn. Soc., XIII, 1812, p. 256, pl. XXIV.

*Viverra gracilis* Desm., Mamm., 1820, p. 539.

*Felis gracilis* Horsf., Zool. Res. in Java, No. 1, 1824.

*Viverra hardwickii* Less., Mon. Mamm., 1827, p. 172.

*Paradoxurus prehensilis* Schinz, Cuv. Thierr., IV, 1821, p. 349. (nec Blainv.)

LINSANG.

1. Adult ♀ P. North Borneo. E. Gerrard & Sons.

Genus 191. **Paradoxurus.**

**Paradoxurus** F. Cuv., Hist. Nat. Mamm., III, 1821, pl. & text. *Id.*

Bull. Sci. Soc. Philom., 1822, p. 103. Type *Paradoxurus typus* F. Cuvier = *Viverra nigra* Desmarest.

687. *Paradoxurus hermaphroditus* (Schreber).

*Viverra hermaphrodita* Schreb., Säugth., III, 1778, p. 426.

*Viverra prehensilis* Desm., Mamm., 1820, p. 208.

\* Some writers have rejected this term on account of its being antedated by *Priodon* Cuvier. It does not seem that Cuvier ever used the term *Priodon*. In 1822 (l. c.) he used the French word *Priodonte* which of course cannot be adopted, and his new reference to these animals *Priodontes* was in 1827, three years after *Prionodon* was established by Horsfield. It would seem therefore that *Prionodon* is correctly used for the genus, and may not be superseded by *Linsang*, which becomes a synonym.

*Paradoxurus musanga* Gray, Proc. Zool. Soc., 1832, p. 66.

*Paradoxurus crossii* Gray, Proc. Zool. Soc., 1832, p. 67.

*Paradoxurus pallasii* Gray, Proc. Zool. Soc., 1832, p. 67.

*Paradoxurus hermaphroditus* Blanford, Proc. Zool. Soc., 1885, p. 794.

#### MALAYAN PALM-CIVET.

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ Melanistic form. P. Altapupu, Timor. A. Everett.
3. Adult — P. Malacca. E. Gerrard & Sons.

#### Genus 192. **Hemigalus.**

**Hemigalus** Jourdan, Compt. Rendus, v, 1837, p. 442. Type *Viverra hardwickii* Gray.

#### 688. **Hemigalus hardwicki** (Gray).

*Viverra hardwickii* Gray, Spic. Zool., II, 1830, p. 9. (nec Less.)

*Hemigale zebra* Éyd. & Soul., Voy. 'Bonite,' Mamm., 1837-8. pl. v.

*Paradoxurus derbyanus* Gray, Mag. Nat. Hist., I, 1837, p. 579.

*Paradoxurus? zebra* Gray, Mag. Nat. Hist., I, 1837, p. 579.

*Viverra boiei* Müll., Tijd. Nat. Gesch., v, 1863, p. 144.

#### HARDWICKE'S PALM-CIVET.

1. Adult. ♀ P. Borneo. E. Gerrard & Sons.

#### Genus 193. **Arctictis.**

**Arctictis** Temm., Prosp. Mon. Mamm., 1824. Type *Viverra? binturong* Raffles.

*Ictides* Valenciennes, Ann. Scien. Nat., Paris, IV, 1825, p. 57.

#### 689. **Arctictis binturong** (Raffles).

*Viverra? binturong* Raffles, Trans. Linn. Soc., XII, 1822, p. 253.

*Arctictis binturong* Temm., Mon. Mamm., I, 1827, p. XXI; II, 1835, p. 308.

*Arctictis penicillatus* Temm., Mon. Mamm., II, 1835, p. 2.

*Paradoxurus albifrons* F. Cuv., Mém. Mus., IX, 1822, p. 44, t. 4.

*Ictides ater* F. Cuv., Mamm. Lithogr., I, 1824, pl. 202.

#### BINTURONG, BEAR-CAT.

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 194. **Nandinia.**

**Nandinia** Gray, List Spec. Mamm. Brit. Mus., 1843, pp. xx, 54.  
Type *Viverra binotata* Gray.

690. **Nandinia binotata** (Gray).

*Viverra binotata* Gray, Spic. Zool., II, 1830, p. 9.

*Paradoxurus hamiltoni* Gray, Proc. Zool. Soc., 1832, p. 67.

*Nandinia binotata* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 54.

## NANDINA.

1. Adult — P. West Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 195. **Arctogalidia.**

**Arctogalidia** Merr., Science, N. S., v, 1897, p. 302. Type *Paradoxurus trivirgatus* Gray.

*Arctogale* Peters, Handb. Zool., I, 1863, p. 98. (nec Kaup, 1829.)

691. **Arctogalidia leucotis** (Blyth).

*Paradoxurus leucotis* Blyth, Horsf. Cat., 1851, p. 66. Gray, Cat. Carniv. Pachyd. & Edent. Mamm. Brit. Mus., 1869, p. 76.

*Paradoxurus prehensilis* Sclat., Proc. Zool. Soc., 1877, p. 681, pl. LXXI. (nec Blainv.)

*Arctogale leucotis* Blanf., Faun. Brit. India, Mamm., 1888-1891, p. 115, fig. 30.

## SMALL-TOOTHED PALM-CIVET.

1. Adult ♂ P. Lingga Island, Sumatra. A. H. Everett.

Subfamily II. **Mungosinæ.**Genus 196. **Mungos.**

**Mungos** Geoff. & Cuvier, Mag. Encyclop., II, 1795, pp. 184, 187. Ogilby, Proc. Zool. Soc., 1835, p. 103. Type *Viverra ichneumon* Linnæus.

*Ichneumon* Frisch, Das Nat.-Syst. vierfüss. Thiere, in Tabellen, II, Tab. Gen., 1775. (nec Linn.)

*Herpestes* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 135.

*Mangusta* Horsf., Zool. Research., 1824, pl. & text.

*Atilax* F. Cuv., Hist. Nat. Mamm., v, livr. LIV, 1826, pl. & text.

*Urva* Hodgs., Jour. Asiat. Soc. Beng., vi, Pt. 2, 1837, p. 561.

*Mesobema* Hodgs., Calcutta Jour. Nat. Hist., ii, 1841, p. 214.

*Osmetectis* Gray, Ann. Mag. Nat. Hist., x, 1842, p. 260.

*Calogale* Gray, Proc. Zool. Soc., 1864, p. 560.

*Calictis* Gray, Proc. Zool. Soc., 1864, p. 564.

*Tæniogale* Gray, Proc. Zool. Soc., 1864, p. 569.

*Onychogale* Gray, Proc. Zool. Soc., 1864, p. 570.

**692. *Mungos mungo* (Gmelin).**

*Viverra mungo* Gmel., Syst. Nat., i, 1788, p. 84.

*Ichneumon griseus* E. Geoff., Descrip. Egypt, ii, 1812, p. 157.

*Herpestes griseus* Desm., Mamm., 1820, p. 212.

*Herpestes frederici* Desm., Dict. Scien. Nat., xxix, 1823, p. 60.

*Herpestes pallidus* Wagn., Schreb. Säugth., Suppl., ii, 1841, p. 311, pl. cxvi.

*Herpestes ferrugineus* Blanf., Proc. Zool. Soc., 1874, p. 661, pl. LXXXI.

*Herpestes andersoni* Murray, Vert. Zool. Sind, 1884, p. 34.

*Herpestes mungo* Elliot, Mamm. Middle Amer. & W. Indies, F. C.

M. Pub., iv, Pt. II, 1904, p. 462, figs. 85, LXI. Zool. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,

vi, 1905, p. 374. Zool. Ser.



FIG. XLIV. MUNGOS MUNGO. MUNGOOSE.



## COMMON INDIAN MUNGOOSE.

1. Adult ♂ P. San Domingo City, San Domingo. G. K. Cherrie.

693. *Mungos gracilis* Rüppell.

*Herpestes gracilis* Rüpp., Neu. Wirbelth. Abyss., 1835, p. 29, pl. VIII, fig. 2.

*Herpestes mutigigella* Rüpp., Neu. Wirbelth. Abyss., 1835, p. 29, pl. IX, fig. 1.

*Ichneumia nigricaudatus* Geoff., Mag. Zool., 1839, p. 18.

*Herpestes galinieri* Guérin, Ferr. & Galin. Voy. Abyss., Alt. Zool., 1847, pl. 1, fig. 1.

*Herpestes punctulatus* Gray, Proc. Zool. Soc., 1849, p. 11.

*Herpestes lefebvrei* Des Murs & Prév., Lefeb. Voy. Abyss., Atl. Zool., 1850, pl. 1.

*Herpestes ornatus* Peters, Reis. nach Mossamb., Säugeth., 1852, p. 117, pl. xxvi.

*Herpestes ochromelas* Pucher., Rev. Mag. Zool., VII, 1855, p. 393.

*Herpestes iodoprymnus* Heugl., Nov. Act. Acad. Cæs. Leop.-Carol., xxix, 1861, p. 23.

*Herpestes adailensis* Heugl., Peterm. Geog. Mittheil., 1861, p. 17.

*Herpestes mutschelischela* & *H. ruficauda* Heugl., Reis. N. Afr., II, 1877, pp. 41, 43.

## GRACEFUL MUNGOOSE.

1. Adult ♀ P. Upper Shire River, British Central Africa. P. Rendall.

Genus 197. *Helogale*.

*Helogale* Gray, Proc. Zool. Soc., 1861, p. 308, figs. Type *Herpestes parvulus* Sundevall.

694. *Helogale atkinsoni* Thomas.

*Helogale atkinsoni* Thos., Ann. Mag. Nat. Hist., xx, 6th Ser., 1897, p. 377. *Id.* Proc. Zool. Soc., 1902, p. 119.

## ATKINSON'S MUNGOOSE.

1. Adult ♂ Coll. Hullieh, Somaliland, East Africa. D. G. Elliot.

Genus 198. *Cynictis*.

*Cynictis* Ogilby, Proc. Zool. Soc., 1833, p. 48. Type *Cynictis steedmanni* Ogilby = *Herpestes penicillatus* Cuvier.

**695. Cynictis penicillatus** (G. Cuvier).

*Herpestes penicillatus* G. Cuv., Règ. Anim., 2me ed., I, 1829, p. 158.

*Mangusta levaillantii* A. Smith, Zoöl. Jour., IV, 1829, p. 437.

*Cynictis steedmanni* Ogilby, Proc. Zoöl. Soc., 1833, p. 49.

*Cynictis ogilbyii* A. Smith, S. Afr. Quart. Jour., II, 1834, p. 116.

*Cynictis lepturus* A. Smith, Ill. S. Afr. Zoöl., Mamm., 1839, pl.

XVII.

**BUSHY-TAILED MEERKAT.**

1. Adult — P. Cape Colony, S. Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — P. South Africa. E. Gerrard & Sons.

**Family III. Hyænidæ. Hyænas.****Subfamily I. Protelinæ.****Genus 199. Proteles.**

**Proteles** I. Geoff., Mém. Mus. Hist. Nat. Paris, XI, 1824, p. 355, pl. 20. Type *Proteles lalandii* Geoffroy = *Viverra cristata* Sparrman.

**696. Proteles cristatus** (Sparrman).

*Viverra cristata* Sparrm., Resa till Goda Hopps-udden, I, 1783, p. 581; *Id.* English Translation, II, 1785, p. 192.

*Viverra hyænoides* Desm., Mamm., 1820, p. 538.

*Proteles lalandii* Is. Geoff., Mém. Mus. Hist. Nat. Paris, XI, 1824, p. 371, pl. 20.

*Proteles cristatus* W. L. Sclater, Faun. S. Afr., Mamm., I, 1900, p. 80, figs. 20, 21.

**AARD-WOLF.**

1. Adult — P. Cape Colony, South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

**Subfamily II. Hyæninæ.****Genus 200. Hyæna.**

**Hyæna** Brisson, Regn. Anim., 2d ed., 1762, p. 169. Type *Hyæna hyæna* Brisson = *Canis hyæna* Linnæus.

**697. *Hyæna crocuta* (Erxleben).**

*Canis crocuta* Erxleben, Syst. Regn. Anim., 1777, p. 578.

*Hyæna crocuta* Zimm., Geogr. Gesch., 1777, p. 256. W. L.

Sclater, Faun. S. Afr., Mamm., 1, 1900, p. 87, fig. 22.

*Hyæna capensis* Desm., Mamm., 1820, p. 216.

*Crocota maculata* Layard, Cat. Mamm. S. Afr. Mus., 1862, p. 36.

Gray, Proc. Zool. Soc., 1868, p. 525.

**SPOTTED HYÆNA.**

1. Adult — P. South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♂ Coll. Le Gud, Somaliland, E. Africa. D. G. Elliot.

3. Juv. ♂ Coll. Le Gud, Somaliland, E. Africa. D. G. Elliot.

4. Adult ♂ Coll. Marodijeh, Somaliland, E. Africa. D. G. Elliot.

**698. *Hyæna hyæna* (Linnaeus).**

*Canis hyæna* Linn., Syst. Nat., 1, 1758, p. 40; 1, 1766, p. 58.

*Hyæna striata* Zimm., Specim. Zool. Geogr., 1777, p. 366.

*Hyæna orientalis* Tiedem., Zool., 1, 1808, p. 500.

*Hyæna vulgaris* Desm., Mamm., 1820, p. 215.

*Hyæna antiquorum* Temm., Ann. Gen. Scien. Phys., III, 1820, p. 51.

*Hyæna virgata* Gray, Proc. Zool. Soc., 1856, p. 397.

**STRIPED HYÆNA.**

1. Adult ♂ Coll. South of Toyo Plain, Somaliland, East Africa. D. G. Elliot.

2. Adult ♂ Coll. Hersi Barri, Ogaden, Somaliland, East Africa. D. G. Elliot.

3. Juv. ♂ Coll. Hullieh, Somaliland, East Africa. D. G. Elliot.

4. Adult ♀ Coll. Durban, Somaliland, East Africa. D. G. Elliot.

5. Adult — P. North Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

6. Adult — Pres. — — — ? Lincoln Park Menagerie, Chicago.

**Family IV. *Canidæ*. Dogs, Wolves, Foxes.****Subfamily I. *Caninæ*.****Genus 201. *Nyctereutes*.**

***Nyctereutes*** Temm., Tidsch. Nat. Geschied. Phys., v, 1838-39, p. 285. Type *Canis procyonoides* Gray.

**699. Nyctereutes procyonides (Gray).**

*Canis procyonoides* Gray, Illust. Ind. Zoöl., II, 1834, pl. I.

*Canis (Nyctereutes) viverrinus* Temm., Faun. Japon., Mamm., 1847, p. 40, pl. 8.

*Nyctereutes procyonoides* Gray, Proc. Zoöl. Soc., 1868, p. 522.

**RACCOON-LIKE DOG.**

1. Adult — P. Japan. Ward's Nat. Scien. Establ., Rochester, N. Y.

**Genus 202. Lycaon.**

**Lycaon** Brookes, in Griff. Anim. Kingd., v, 1827, p. 151. Type *Lycaon tricolor* Brookes = *Hyæna picta* Temminck.

**700. Lycaon pictus (Temminck).**

*Hyæna picta* Temm., Ann. Gen. Scien.-Phys., III, 1820, p. 54, pl. XXXV.

*Hyæna venatica* Burch., Trav., I, 1822, p. 456; II, pp. 99, 229.

*Canis pictus* Desm., Mamm., Suppl., 1822, p. 538.

*Lycaon tricolor* Brookes, in Griff. Anim. Kingd., v, 1827, p. 151.

*Id.* Prod. Anim., 1828, p. 10.

**HYÆNA DOG, WILD DOG.**

1. Juv. — P. South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.



FIG. XLV. LYCAON PICTUS. HYÆNA DOG.



Genus 203. **Otocyon.**

**Otocyon** Müll., Archiv Anat. & Phys., 1836, pl. 1. Type *Otocyon caffer* Lichtenstein = *Canis megalotis* Desmarest.

*Agriodius* H. Smith, Jard. Nat. Libr., Mamm., x, 1840, p. 258.

**701. Otocyon megalotis** (Desmarest).

*Canis megalotis* Desm., Mamm., Suppl., 1, 1822, p. 538.

*Canis lalandii* Desmoul., Dict. Class. Hist. Nat., IV, 1823, p. 18.

*Otocyon caffer* Licht., Wieg. Archiv f. Naturg., IV, 1838, p. 290.

**LARGE-EARED FOX.**

1. Adult ♂ Coll. Dagahbur, Somaliland, East Africa. D. G. Elliot.

Genus 204. **Canis. Dogs, Wolves.**

**Canis** Linn., Syst. Nat., 1, 1758, p. 38; 1, 1766, p. 56. Type *Canis familiaris* Linnæus.

*Lupus* Frisch, Das Nat.-Syst. vierfüß. Thiere, in Tabellen, 14, Tab. Gen., 1775.

*Thos* Oken, Lehrb. Naturg., 3ter Theil, Zool., 2te Abth., 1816, p. 1037.

*Lyciscus* H. Smith, Jard. Nat. Libr., Mamm., ix, 1839, p. 160.

*Thous* H. Smith, Jard. Nat. Libr., Mamm., ix, 1839, p. 193.

*Lycalopex* Burm., Syst. Uebers. Thiere Bras., Mamm., 1, 1854, p. 95.

*Lupulus* Gervais, Hist. Nat. Mamm., II, 1855, p. 60.

*Simznia* Gray, Proc. Zool. Soc., 1868, p. 494.

*Dieba* Gray, Cat. Carniv. Pachyd. & Eden. Mamm. Brit. Mus., 1869, pp. 180, 189.

Subgenus A. **Thos.****702. Canis mesomelas** Schreber.

*Canis mesomelas* Schreb., Säugth., III, 1778, p. 370, pl. 95. Desm., Mamm., 1820, p. 201.

*Thous mesomelas* H. Smith, Jard. Nat. Libr., Mamm., ix, 1839, p. 193, pl. 12.

**BLACK-BACKED JACKAL.**

1. Adult ♂ Coll. Adadleh, Somaliland, East Africa. D. G. Elliot.
2. Adult ♂ Coll. Marodijeh, Somaliland, East Africa. D. G. Elliot.

3. Adult ♀ Coll. Marodijeh, Somaliland, East Africa. D. G. Elliot.
4. Adult ♀ Coll. South of Toyo Plain, Somaliland, East Africa. D. G. Elliot.

**703. *Canis anthus* F. Cuvier.**

*Canis anthus* F. Cuv., Hist. Nat. Mamm., II, 1824.

*Canis variegatus* Rüpp., Atlas Zool., 1826, p. 31, pl. 10.

*Canis lupaster* Hempr. & Ehrenb., Symb. Phys., 1833, p. —

*Satalius barbarus* H. Smith, Jard. Nat. Libr., Mamm., IX, 1839, p. 218.

*Lupus anthus* Gray, Proc. Zool. Soc., 1868, p. 502.

*Dieba anthus* Gray, Cat. Carniv. Pachyd. & Edent. Mamm. Brit. Mus., 1869, p. 189.

**NORTH AFRICAN JACKAL.**

1. Adult ♂ Coll. Berbera, Somaliland, East Africa. D. G. Elliot.
2. Adult ♂ Coll. Anouf Prairie, Somaliland, East Africa. D. G. Elliot.

**704. *Canis cancrivorus* Desmarest.**

*Canis cancrivorus* Desm., Mamm., 1820, p. 199.

*Canis brasiliensis* Lund, Blik Bras. Dyrev. femte Afhandl., 1843, p. 10, pl. 42, figs. 1-3.

*Canis melampus* Wagn., Archiv f. Natur., IX, 1843, p. 357.

*Canis melanostomus* Wagn., Archiv f. Natur., IX, 1843, p. 358.

**CRAB-EATING DOG.**

1. Adult — P. South America. Ward's Nat. Scien. Establ., Rochester, N. Y.

**705. *Canis azaræ* Maximilian.**

*Canis azaræ* Max., Beitr. Nat. Bras., II, 1826, p. 338.

*Canis fulvipes* Martin, Proc. Zool. Soc., 1837, p. 11.

*Canis entrerianus* Burm., Reis. de la Plata, II, 1861, p. 400.

*Canis gracilis* Burm., Reis. de la Plata, II, 1861, p. 406.

**AZARA DOG.**

1. Adult — P. South America. Ward's Nat. Scien. Establ., Rochester, N. Y.

**706. *Canis aquilus* (Bangs).**

*Urocyon aquilus* Bangs, Proc. Biol. Soc. Wash., XII, 1898, p. 93.

*Canis aquilus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1904, p. 450.

**COLOMBIAN WILD DOG.**

1. Adult — P. Bonda, Colombia, South America. H. H. Smith.

Subgenus B. *Lupulus*.**707. *Canis latrans* Say.**

*Canis latrans* Say, Long's Exped. Rocky Mts., I, 1823, p. 168.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 301, pl.  
 xxix. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &  
 W. Indies, F. C. M. Pub., VI, 1905, p. 376. Zoöl. Ser.

## BARKING COYOTE.

1. Adult ♀ P. Quesvelle, British Columbia, Canada. C. K. Worthern.
2. Adult ♀ Pres. Minkata, Minnesota. A. Schubert.
3. Adult ♀ Kansas. No record.
4. Adult ♂ Melanistic form. P. Winnipeg, Manitoba, Canada. A. C. Foster.

**708. *Canis lestes* Merriam.**

*Canis lestes* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 25. Elliot,  
 Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 301. Zoöl.  
 Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub.,  
 IV, Pt. II, 1904, p. 465. Zoöl. Ser. *Id.* Check-L. Mamm. N.  
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 377.  
 Zoöl. Ser.

## ROBBER COYOTE.

1. Adult ♂ Coll. Long Cañon, Mt. Whitney, California. E. Heller.
2. Adult ♂ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.
3. Adult ♀ Coll. Big Cottonwood Meadows, Mt. Whitney, California. E. Heller.

**709. *Canis nebrascensis* Merriam.**

*Canis pallidus* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 24.  
 (preoccupied.)

*Canis nebracensis!* Merr., Science, N. Ser., VIII, 1897, p. 782.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 301.  
 Zoöl. Ser.

*Canis nebrascensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W.  
 Indies, F. C. M. Pub., VI, 1905, p. 377. Zoöl. Ser.

## NEBRASKA COYOTE.

1. Adult ♂ P. Alberta, Canada. G. F. Dippie.
2. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.

**710. *Canis mearnsi* Merriam.**

*Canis mearnsi* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 30.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 302.  
 Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.  
 Pub., IV, Pt. II, 1904, p. 468. Zoöl. Ser. *Id.* Check-L. Mamm.

N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 377.  
Zoöl. Ser.

MEARNS'S COYOTE.

1. Adult ♂ Coll. Calabozo, Lower California, Mexico. E. Heller.
2. Adult ♀ Coll. El Alamo, Lower California, Mexico. E. Heller.
3. Adult ♂ Coll. El Alamo, Lower California, Mexico. E. Heller.
4. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
5. Adult ♀ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.

711. *Canis estor* Merriam.

*Canis estor* Merr., Proc. Biol. Soc. Wash., XI, 1897, p. 31. Elliot,  
Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 302. Zoöl.  
Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub.,  
IV, Pt. II, 1904, p. 469. Zoöl. Ser. *Id.* Check-L. Mamm. N.  
Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 378.  
Zoöl. Ser.

NOLAND'S RANCH COYOTE.

1. Adult ♂ Coll. Cañon Esperanza, Lower California, Mexico.  
E. Heller.
2. Adult ♀ Coll. Cañon Esperanza, Lower California, Mexico.  
E. Heller.
- 3-5. Adult ♂ Coll. San Felipe, Lower California, Mexico. E.  
Heller.
- 6-7. Adult ♀ Coll. San Felipe, Lower California, Mexico. E.  
Heller.
8. Adult ♂ Coll. San Quentin, Lower California, Mexico. E.  
Heller.
9. Adult ♀ Coll. San Quentin, Lower California, Mexico. E.  
Heller.
10. Adult ♀ Coll. Neenach, California. E. Heller.

712. *Canis clepticus* Elliot.

*Canis clepticus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 225.  
Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.  
Pub., IV, Pt. II, 1904, p. 467. Zoöl. Ser. *Id.* Check-L.  
Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905,  
p. 379. Zoöl. Ser.

THIEVISH COYOTE.

1. Adult ♂ Type. Coll. Vallecitos, Lower California, Mexico.  
E. Heller.
2. Adult ♀ Coll. Santa Rosa, Lower California, Mexico. E. Hel-  
ler.



3. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
4. Adult ♀ Coll. Agua Escondido, Lower California, Mexico. E. Heller.

**713. *Canis ochropus* Eschscholtz.**

*Canis ochropus* Eschsch., Zool. Atlas, III, 1829, pp. 1-2, pl. II.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 303.  
 Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.  
 Pub., IV, Pt. II, 1904, p. 469. Zoöl. Ser. *Id.* Check-L. Mamm.  
 N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 379.  
 Zoöl. Ser.

**OCHRACEOUS-FOOTED COYOTE.**

1. Adult ♂ Coll. Fort Tejon, California. E. Heller.

**Subgenus *C. Canis*.**

**714. *Canis simensis* Rüppell.**

*Canis simensis* Rüpp., Neue Wirbelth. Faun. Abyss., 1835, p. 39,  
 pl. 14.

*Simenia simensis* Gray, Proc. Zoöl. Soc., 1868, p. 506.

**ABYSSINIAN WOLF.**

1. Adult ♂ P. Abyssinia. P. H. G. Powell-Cotton.

**715. *Canis mexicanus* Linnæus.**

*Canis mexicanus* Linn., Syst. Nat., I, 1766, p. 60. Elliot, Mamm.  
 Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p.  
 471, fig. LXII, pl. XLVI. Zoöl. Ser. *Id.* Check-L. Mamm. N.  
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 376.  
 Zoöl. Ser.

**MEXICAN TIMBER WOLF. *Lobo* in Spanish America.**

- 1-2. Adult — Pres. Casas Grandes, State of Chihuahua, Mexico.  
 Kennedy & Stevenson.

**716. *Canis occidentalis* (Richardson).**

*Canis lupus occidentalis* Richard., Faun. Bor. Amer., Mamm., I,  
 1829, p. 60.

*Canis occidentalis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,  
 1901, p. 300. Zoöl. Ser. (Part.) *Id.* Check-L. Mamm. N.  
 Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 376.  
 Zoöl. Ser.

**WESTERN TIMBER WOLF.**

1. Adult ♂ P. ———? C. E. Akeley.
2. Adult ♀ P. ———? C. E. Akeley.



FIG. XLVI. *CANIS MEXICANUS*. MEXICAN TIMBER WOLF.

3. Adult — P. ———? C. E. Akeley.
4. Adult — P. Nebraska. Ward's Nat. Scien. Establ., Rochester, N. Y.
5. Adult — P. Park Siding, Michigan. Reinboldt.

**717. *Canis griseus* (Sabine).**

*Canis lupus griseus* Sabine, Frankl. Narr. Journ. Polar Sea, 1823, p. 654.

*Canis lupus albus* Sabine, Frankl. Narr. Journ. Polar Sea, 1823, p. 655.

*Lupus griseus* var. A. Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 66.

*Lupus albus* var. B. Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 68.

*Lupus stictus* var. C. Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 68.

*Lupus ater* var. E. Richard., Faun. Bor. Amer., Mamm., 1, 1829, p. 70.

*Canis occidentalis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 300. Zoöl. Ser. (Part.)

*Canis griseus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 375. Zoöl. Ser.

#### ARCTIC WOLF.

1. Adult ♀ P. Gleichen, Alberta, Canada. G. F. Dippie.

2. Juv. ♂ P. Gleichen, Alberta, Canada. G. F. Dippie.

3-4. Juv. ♀ P. Gleichen, Alberta, Canada. G. F. Dippie.

#### 718. *Canis pambasileus* Elliot.

*Canis pambasileus* Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p.

79. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C.

M. Pub., VI, 1905, p. 374. Zoöl. Ser.

#### AUTOCRAT TIMBER WOLF.

1-2. Adult ♂ Type & paratype. P. Sushitna River, Mt. McKinley Region, Alaska. C. F. Periolat.

3-5. Adult — P. Kenai Peninsula, Alaska. C. F. Periolat.

### Genus 205. *Vulpes*. Red Foxes.

*Vulpes* Frisch, Das Nat.-Syst. vierfüss. Thiere, in Tabellen, Tab.

Gen., 1775. Type *Canis vulpes* Linnæus.

*Leucocyon* Gray, Proc. Zoöl. Soc., 1868, p. 521.

#### 719. *Vulpes fulva* (Desmarest).

*Canis fulvus* Desm., Mamm., I, 1820, p. 203.

*Canis decussatus* Desm., Mamm., I, 1820, p. 203.

*Vulpes pennsylvanica* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 304. Zoöl. Ser.

*Vulpes fulva* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 380. Zoöl. Ser.

#### RED FOX.

1. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.

2-3. Adult — P. Sushitna River, Mt. McKinley Region, Alaska. C. F. Periolat.

4-6. Adult — P. Log Cabin, Stevensville Crossing, Newfoundland. C. F. Periolat.

7. Adult ♀ P. Job's Knob Mountain, West Virginia. T. Surber.

#### a. *Vulpes fulva argentata* (Shaw).

*Canis argentatus* Shaw, Gen. Zoöl., I, 1800, p. 325.

*Vulpes pennsylvanica argentata* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 304. Zoöl. Ser.

*Vulpes fulva argentata* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 380. Zoöl. Ser.

SILVER FOX, BLACK FOX.

1. Adult — P. ———? C. F. Periolat.

b. *Vulpes fulva macroura* (Baird).

*Vulpes macrourus* Baird, Stansb. Expl. Great Salt Lake, Utah, 1852, p. 309.

*Vulpes pennsylvanica macrura* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 305. Zoöl. Ser.

*Vulpes fulva macroura* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 380. Zoöl. Ser.

LONG-TAILED FOX.

1. Adult — P. Minnesota. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♂ P. Red Deer River, Alberta, Canada. G. F. Dippie.

3. Adult ♀ P. Red Deer River, Alberta, Canada. G. F. Dippie.

4-5. Adult — P. Alaska. C. F. Periolat.

720. *Vulpes necator* Merriam.

*Vulpes necator* Merr., Proc. Wash. Acad. Scien., II, 1900, p. 664.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Append., p. 433. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &

W. Indies, F. C. M. Pub., VI, 1905, p. 381. Zoöl. Ser.

MURDERING FOX.

1-3. Adult ♀ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.

4. Adult ♀ Coll. Ramshaw Meadows, Mt. Whitney, California. E. Heller.

721. *Vulpes regalis* Merriam.

*Vulpes regalis* Merr., Proc. Wash. Acad. Scien., II, 1900, p. 672.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Append., p. 432. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &

W. Indies, F. C. M. Pub., VI, 1905, p. 382. Zoöl. Ser.

ROYAL FOX.

1. Adult ♂ P. Madison, Minnesota. A. Lanon.

a. *Vulpes lagopus innuitus* Merriam.

*Vulpes lagopus innuitus* Merr., Proc. Biol. Soc. Wash., XV, 1902, p. 170. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies,

F. C. M. Pub., VI, 1905, p. 382. Zoöl. Ser.

SUMMIT ARCTIC FOX.

1. Adult — P. Alaska. Ward's Nat. Scien. Establ., Rochester, N. Y.



2. Adult ♂ P. Stellneckt Island, Greenland. S. Warmbath.
3. Adult ♀ P. Stellneckt Island, Greenland. S. Warmbath.

## 722. *Vulpes macrotis* Merriam.

*Vulpes macrotis* Merr., Proc. Biol. Soc. Wash., IV, 1888, p. 135.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 306.  
 Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M.  
 Pub., IV, Pt. II, 1904, p. 472, figs. 86, LXIII. Zoöl. Ser. *Id.*  
 Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,  
 VI, 1905, p. 384. Zoöl. Ser.



FIG. XLVII. *VULPES MACROTIS*. BIG-EARED KIT FOX.

## BIG-EARED KIT FOX.

1. Adult ♂ Coll. Trinidad, Lower California, Mexico. E. Heller.
2. Adult ♀ Coll. Trinidad, Lower California, Mexico. E. Heller.

## 723. *Vulpes velox* (Say).

*Canis velox* Say, in Long's Exped. Rocky Mts., I, 1823, p. 487.  
*Canis cinereo-argentatus* Sabine, Frankl. Narr. Journ. Polar Sea,  
 1823, p. 658.  
*Canis microtus* Reichenb., Wieg. Archiv f. Naturg., III, 1837, II,  
 p. 162.  
*Vulpes velox* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,  
 p. 306. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &  
 W. Indies, F. C. M. Pub., VI, 1905, p. 384. Zoöl. Ser.

## SWIFT FOX.

1. Adult — P. Rocky Ford, Colorado. B. B. Beymer.

a. *Vulpes velox hebes* Merriam.

*Vulpes velox hebes* Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 73.

Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.

Pub., vi, 1905, p. 384. Zoöl. Ser.

## SLUGGISH FOX.

1. Adult ♂ P. Rush Lake, Assiniboia, Canada. G. F. Dippie.

- 2-3. Adult ♀ P. Rush Lake, Assiniboia, Canada. G. F. Dippie.

- 4-5. Adult ♀ Topotypes. P. Calgary, Alberta, Canada. G. F. Dippie.

724. *Vulpes arsipus* Elliot.

*Vulpes arsipus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 256.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 385. Zoöl. Ser.

## SWIFT-FOOTED KIT FOX.

- 1-2. Adult ♂ Type and paratype. Coll. Daggett, Mohave Desert, California. E. Heller.

- 3-4. Adult ♀ Paratypes. Coll. Daggett, Mohave Desert, California. E. Heller.

5. Adult ♀ Coll. Wild Rose Spring, Panamint Mts., California. E. Heller.

6. Adult ♀ Coll. Pilot Knob, California. E. Heller.

725. *Vulpes vulpes* Linnæus.

*Canis vulpes* Linn., Syst. Nat., I, 1758, p. 40; I, 1766, p. 59.

*Canis alopx* Linn., Syst. Nat., I, 1758, p. 40; I, 1766, p. 59.

*Canis vulpes montana* Pearson, Jour. Asiat. Soc. Beng., v, 1836, p. 313.

*Canis himalaicus* Ogilby, Proc. Zoöl. Soc., 1836, p. 103.

*Vulpes flavescens* Gray, Ann. Mag. Nat. Hist., XI, 1843, p. 118.

## COMMON FOX.

1. Adult — P. Europe. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 206. *Urocyon*. Gray Foxes.

*Urocyon* Baird, N. Am. Mamm., 1857, p. 121. Type *Canis virginianus* Erxleben = *Canis cinereo-argenteus* Müller.

726. *Urocyon cinereo-argenteus* (Müller).

*Canis cinereo-argenteus* Müll., Natur. Suppl., 1776, p. 29. (Desc.)

Schreb., Säugth., III, 1776, p. 361, pl. xcii, 1775.

*Canis virginianus* Erxl., Syst. Regn. Anim., 1777, p. 567.

*Canis griseus* Bodd., Elench. Anim., 1, 1784, p. 97.

*Urocyon cinereo-argenteus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 307. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 386. Zoöl. Ser.

#### GRAY FOX.

1. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.

#### a. *Urocyon cinereo-argenteus scotti* Mearns.

*Urocyon cinereo-argenteus scotti* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 236. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 308, pl. xxxi. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 477. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 386. Zoöl. Ser.

#### SCOTT'S GRAY FOX.

1. Adult ♀ P. Fairbank, Arizona. W. W. Price.

2-5. Adult — Pres. Casas Grandes, State of Chihuahua, Mexico. V. S. Kennedy.

6. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

#### b. *Urocyon cinereo-argenteus texensis* Mearns.

*Urocyon cinereo-argenteus texensis* Mearns, Proc. U. S. N. Mus., xx, 1897, p. 459. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 308. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 478. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 386. Zoöl. Ser.

#### TEXAS GRAY FOX.

1. Adult ♂ P. Ciudad, State of Durango, Mexico. A. Forrer.

#### c. *Urocyon cinereo-argenteus californicus* Mearns.

*Urocyon cinereo-argenteus californicus* Mearns, Proc. U. S. Nat. Mus., xx, 1897, p. 459. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 308. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 477. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 387. Zoöl. Ser.

#### CALIFORNIA GRAY FOX.

1. Adult ♂ Coll. Mendocino, California. E. Heller.

2. Adult ♀ P. Marin County, California. C. K. Worthern.

3. Adult — P. Nicasio, California. C. K. Worthern.

4. Adult — Coll. Nicasio, California. E. Heller.
5. Adult ♂ Coll. Hanson Lagoon, Hanson Laguna Mts., Lower California, Mexico. E. Heller.
6. Juv. ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.

d. *Urocyon cinereo-argenteus inyoensis* Elliot.

*Urocyon cinereo-argenteus inyoensis* Elliot, Pub. Field Columb. Mus., III, 1904, p. 268. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 387. Zoöl. Ser.

INYO MOUNTAINS GRAY FOX.

1. Adult ♂ Type. Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
2. Adult ♂ Coll. Inyo Mts., summits E. of Lone Pine, California. E. Heller.

e. *Urocyon cinereo-argenteus guatemalæ* (Miller).

*Urocyon guatemalæ* Miller, Proc. Acad. Nat. Scien. Phil., 1899, p. 278.

*Urocyon cinereo-argenteus guatemalæ* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 475. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 389. Zoöl. Ser.

GUATEMALAN GRAY FOX.

1. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 2-3. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
4. Adult — Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
5. Adult ♂ Coll. Zanatepec, State of Oaxaca, Mexico. Heller & Barber.

f. *Urocyon cinereo-argenteus fraterculus* Elliot.

*Urocyon cinereo-argenteus fraterculus* Elliot, Pub. Field Columb. Mus., I, 1896, p. 80. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 475, figs. 87, LXIV. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 389. Zoöl. Ser.

LITTLE GRAY FOX.

- 1-2. Adult ♂ Type and paratype. Pres. San Felipe, Yucatan. C. B. Cory.





FIG. XLVIII. *UROCYON C. FRATERCULUS*. LITTLE GRAY FOX.

**727. *Urocyon catalinæ* Merriam.**

*Urocyon catalinæ* Merr., Proc. Biol. Soc. Wash., XVI, 1903, p. 74.  
 Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.  
 Pub., VI, 1905, p. 389. Zoöl. Ser.

SANTA CATALINA ISLAND GRAY FOX.

1. Adult ♂ Topotype. P. Santa Catalina Island, Santa Barbara Islands, California. J. Rowley.

**728. *Urocyon aquilus* Bangs.**

*Urocyon aquilus* Bangs, Proc. Biol. Soc. Wash., XII, 1898, p. 93.

DARK COLORED GRAY FOX.

1. Adult — P. Bonda, Colombia, S. A. H. H. Smith.

Family V. **Ursidæ. Bears.**

Subfamily I. **Ursinæ.**

Genus 207. **Ursus.**

**Ursus** Linn., Syst. Nat., I, 1758, p. 47; I, 1766, p. 69. Type *Ursus arctos* Linnæus.

- Danis* Gray, Thos. Ann. Phil., xxvi, 1825, pp. 60, 339.  
*Thalarctos!* Gray, Thos. Ann. Phil., xxvi, 1825, p. 62.  
*Thalassarctos!* Gray, Thos. Ann. Phil., xxvi, 1825, p. 339.  
*Helarctos!* Horsf., Zool. Jour., II, 1825, pp. 221-234, pl. VII.  
*Euarctos!* Gray, Proc. Zool. Soc., 1864, p. 692.

Subgenus A. *Thalassarctus*. Polar Bear.

**729. *Ursus maritimus* Phipps.**

- Ursus maritimus* Phipps, Voy. N. Pole, 1774, p. 185. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 310, pl. xxxii. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies. F. C. M. Pub., VI, 1905, p. 390. Zool. Ser.

**POLAR BEAR.**

1. Adult — P. Greenland. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♂ P. Hudson Bay Region, Arctic America. Thos. Luce & Co., New Bedford, Mass.
3. Adult ♀ P. Hudson Bay Region, Arctic America. Thos. Luce & Co., New Bedford, Mass.
- 4-5. Juv. — P. Hudson Bay Region, Arctic America. Thos. Luce & Co., New Bedford, Mass.

Subgenus B. *Ursus*. Brown Bears.

**730. *Ursus middendorffi* Merriam.**

- Ursus middendorffi* Merr., Proc. Biol. Soc. Wash., x, 1896, p. 69. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 310. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 390. Zool. Ser.

**MIDDENDORFF'S, OR ALASKA BROWN BEAR.**

1. Adult — Topotype. P. Kadiak Island, Alaska. C. F. Periolat.
- 2-3. Juv. — Topotype. P. Kadiak Island, Alaska. C. F. Periolat.

Subgenus C. *Danis*. Grizzly Bears.

**731. *Ursus horribilis* Ord.**

- Ursus horribilis* Ord, Guthr. Geog., 2d Am. ed., II, 1815, p. 291. desc. p. 299. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 312, pl. xxxiii. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 392. Zool. Ser.

- Ursus horribilis californicus* Merr., Proc. Biol. Soc. Wash., x, 1896, p. 76.

## GRIZZLY BEAR.

1. Adult ♂ P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Juv. — P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.
4. Adult ♀ Pres. West border of Yellowstone Nat. Park, Wyoming. Johnston & Ashcroft.
- 5-7. Juv. — Pres. West border of Yellowstone Nat. Park, Wyoming. Johnston & Ashcroft.

a. *Ursus horribilis horriæus* Baird.

*Ursus horribilis* var. *horriæus* Baird, Rep. Mex. Bound. Surv., II, Pt. II, 1859, p. 24.

*Ursus horribilis horriæus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 312. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 393. Zoöl. Ser.

*Ursus horriæus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 480, fig. LXV, pl. XLVII. Zoöl. Ser.



FIG. XLIX. *URSUS H. HORRIÆUS*. MEXICAN GRIZZLY BEAR.

## MEXICAN GRIZZLY BEAR.

- 1-3. Adult — Pres. Casas Grandes, State of Chihuahua, Mexico.  
V. S. Kennedy.
4. Juv. — Pres. Casas Grandes, State of Chihuahua, Mexico.  
F. M. Stevenson.

Subgenus D. *Euarctus*. Black Bears.732. *Ursus americanus* Pallas.

- Ursus americanus* Pall., Spic. Zool., fasc. xiv, 1780, p. 5. Elliot,  
Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 313, pl. xxxiv.  
Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,  
F. C. M. Pub., VI, 1905, p. 394. Zool. Ser.

## AMERICAN BLACK BEAR.

1. Juv. — Pres. Near western border of Yellowstone Nat. Park,  
Wyoming. Johnston & Ashcroft.
- 2-3. Juv. — (Cinnamon.) P. Minnesota. C. E. Akeley.
4. Adult ♀ P. Wisconsin. C. E. Akeley.
- 5-6. Juv. — P. Wisconsin. C. E. Akeley.

733. *Ursus altifrontalis* Elliot.

- Ursus altifrontalis* Elliot, Pub. Field Columb. Mus., III, 1903, p.  
234. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.  
Indies, F. C. M. Pub., VI, 1905, p. 395. Zool. Ser.

## NORTHWESTERN BLACK BEAR.

1. Adult ♂ Type. Coll. Shore of Lake Crescent, Clallam County,  
Washington. D. G. Elliot.
2. Juv. — Paratype. Coll. Shore of Lake Crescent, Clallam  
County, Washington. D. G. Elliot.

734. *Ursus emmonsii* (Dall).

- Ursus americanus* var. *emmonsii* Dall, Science, N. S., II, 1895, p.  
87.

- Ursus emmonsii* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,  
1901, p. 315. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.  
Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 397. Zool. Ser.

## EMMONS'S GLACIER BEAR.

- 1-2. Adult — P. Mt. St. Elias, Alaska. C. F. Periolat.
3. Adult — Pres. Mt. St. Elias, Alaska. V. S. Kennedy. C. F.  
Periolat.

735. *Ursus tibetanus* F. Cuvier.

- Ursus tibetanus* F. Cuv., Hist. Nat. Mamm., 1824, pl. 213.  
*Ursus malayanus* Hodgs., Jour. Asiat. Soc. Beng., I, 1832, p. 340.  
(nec Raffles.)



*Ursus torquatus* Wagn., Schreb. Säugth., Suppl., II, 1841, p. 144.

*Ursus ornatus* Günth., Proc. Zool. Soc., 1880, p. 443.

TIBETAN BLACK BEAR.

1. Adult ♂ P. Tibet. Rowland Ward & Co.

**736. *Ursus japonicus* Schlegel.**

*Ursus thibetanus* Temm. & Schleg., Faun. Jap., 1850, p. 70, pl.

1, fig. 4. (nec F. Cuvier.)

*Ursus japonicus* Schleg., Handl. Beoef. Dierk., I, 1857, p. 42.

JAPANESE BLACK BEAR.

1. Adult — P. Japan. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subgenus E. *Helarctus*. Sun Bears.

**737. *Ursus malayanus* Raffles.**

*Ursus malayanus* Raffles, Trans. Linn. Soc., XIII, 1822, p. 254.

*Helarctos! euryspilus* Horsf., Zool. Jour., II, 1825, p. 221.

*Helarctos! malayanus* Horsf., Zool. Jour., II, 1825, p. 234.

*Ursus malayanus* Blanf., Faun. Brit. Ind., Mamm., 1888-1891,

p. 199.

MALAY BEAR.

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — P. Telok Betong, So. Sumatra. W. Danne.

Family VI. **Procyonidæ. Raccoons, Coatis, etc.**

Subfamily I. **Ælurinae.**

Genus 208. **Ælurus.**

**Ailurus** F. Cuv., Hist. Nat. Mamm., v, 1825, livr. L, pl. & text.

Type *Ailurus fulgens* F. Cuvier.

**738. *Ælurus fulgens* F. Cuvier.**

*Ailurus fulgens* F. Cuv., Hist. Nat. Mamm., 1825, pl. 203.

*Ailurus ochraceus* Hodg., Jour. Asiat. Soc. Beng., XVI, Pt. II,

1847, pp. 475, 573, pl. LII, LIII.

*Ælurus fulgens* Blanf., Faun. Brit. Ind., Mamm., 1888-91, p. 190,

figs. 50, 51.

RED CAT-BEAR OR INDIAN RACCOON.

1. Adult — P. "North India." Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. **Procyoninae.**Genus 209. **Bassariscus.**

**Bassariscus** Coues, Science, ix, 1887, p. 516. Type *Bassaris astuta* Lichtenstein.

*Bassaris* Licht., Isis, 1831, p. 512. (nec Hübner, 1816.)

*Wagneria* Jentink, Notes Leyden Mus., viii, 1886, p. 129. (nec Rob.-Desv., 1830, Diptera; nec Alenitzin, 1873, Protozoa.)

**739. Bassariscus astutus** (Lichtenstein).

*Bassaris astuta* Licht., Isis, 1831, p. 513.

*Bassariscus astutus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 316. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 484, figs. 88, LXVI. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 397. Zoöl. Ser.

COMMON RACCOON-FOX. *Cacomistl* in Mexico, *Cat Squirrel* in Texas.

1. Adult ♂ P. Pinal County, Oregon. W. E. D. Scott.



✓  
FIG. L. BASSARISCUS ASTUTUS. COMMON RACCOON-FOX.

2. Adult ♀ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.

a. *Bassariscus astutus raptor* (Baird).

*Bassariscus raptor* Baird, Rep. U. S. Mex. Bound. Surv., Mamm., II, 1859, p. 19.

*Bassariscus flavus oregonus* Rhoads, Proc. Acad. Nat. Scien. Phil., 1893, p. 416.

*Bassariscus astutus raptor* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 316, pl. xxxv. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 398. Zool. Ser.

*Bassariscus astutus oregonus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 317. Zool. Ser.

ROBBER RACCOON-FOX.

1. Adult — P. Southern California. Ward's Nat. Scien. Establ., Rochester, N. Y.
- 2-3. Adult ♂ P. Snow Mountains, Colusa County, California. W. W. Price.
- 4-5. Adult ♀ P. Snow Mountains, Colusa County, California. W. W. Price.

740. *Bassariscus albipes* Elliot.

- *Bassariscus albipes* Elliot, Pub. Field Columb. Mus., III, 1903, p. 258. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 486. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 399. Zool. Ser.

WHITE-FOOTED RACCOON-FOX.

1. Adult ♂ Type. Coll. Near City of Vera Cruz, State of Vera Cruz, Mexico. N. G. Buxton.

Genus 210. **Procyon.**

**Procyon** Storr, Prodr. Meth. Mamm., 1780, p. 35, Tab. A. Type *Ursus lotor* Linnæus.

*Euprocyon* Gray, Proc. Zool. Soc., 1864, pp. 705-706.

741. *Procyon lotor* (Linnæus).

*Ursus lotor* Linn., Syst. Nat., I, 1758, p. 48.

*Procyon lotor* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 317, fig. 62. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 400. Zool. Ser.

## COMMON RACCOON.

1. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — Albino. Pres. Wisconsin. E. E. Ayer.
3. Adult — Melanistic form. Pres. Wisconsin. E. E. Ayer.
4. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
5. Adult ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
6. Adult ♂ Coll. Black Mountain, West Virginia. T. Surber.
- 7-8. Adult ♀ Coll. Black Mountain, West Virginia. T. Surber.
- 9-10. Adult ♂ Coll. New Berlin, Florida. T. Surber.
- 11-12. Adult ♀ Coll. New Berlin, Florida. T. Surber.
13. Adult ♂ Coll. St. Marys, Georgia. T. Surber.
14. Adult — Pres. Jackson Park, Chicago. Shelby, Museum Guard.

a. *Procyon lotor hernandezii* (Wagler).

*Procyon hernandezii* Wagler, Isis, 1831, p. 514.

*Procyon nivea* Gray, Charlesw. Mag. Nat. Hist., 1, 1837, p. 580.

*Procyon psora* Gray, Ann. Mag. Nat. Hist., 1st Ser., 1842, p. 261.

*Procyon lotor hernandezii* Elliot; Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 317. Zool. Ser. *Id.* Mamm. Middle Amer, & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 491, fig. LXVII.



FIG. LI. PROCYON L. HERNANDEZI. HERNANDEZ'S RACCOON.



pl. L. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 401. Zoöl. Ser.

HERNANDEZ'S RACCOON.

1. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- 2-3. Adult ♀ Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.
4. Adult ♂ Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.
5. Adult ♀ Coll. Oro Grande, Mohave Desert, California. E. Heller.
6. Adult ♀ Coll. Palm Springs, California. E. Heller.
- 7-8. Adult ♂ P. Presidio Propriae, Mazatlan, State of Sinaloa, Mexico. A. Forrer.
9. Adult ♂ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
10. Adult ♀ Coll. Xico, State of Vera Cruz, Mexico. N. G. Buxton.
- 11-16. Adult ♀ Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.
- 17-19. Adult — Coll. Sabinas, State of Coahuila, Mexico. Heller & Barber.
20. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.

Genus 211. **Nasua. Coatis.**

**Nasua** Storr, Prodr. Meth. Mamm., 1780, p. 35. Type *Viverra nasua* Linnæus.

**742. Nasua nasica** (Linnæus).

*Viverra narica* (sic) Linn., Syst. Nat., 1, 1766, p. 64.

*Nasua nasica* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 497, figs. 91, LXVIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 402. Zoöl. Ser.

**COATI.** *Pisoti, Tejon*, in Spanish America.

1. Adult — P. State of Vera Cruz, Mexico. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — P. "Central America." Ward's Nat. Scien. Establ., Rochester, N. Y.
- 3-6. Adult ♂ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
7. Juv. ♂ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.



FIG. LII. NASUA NASICA. COATI.

- 8-9. Adult ♀ P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
- 10-11. Adult — P. Mazatlan, State of Sinaloa, Mexico. A. Forrer.
- 12-13. Adult ♂ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 14-15. Adult ♀ Coll. Reforma, State of Oaxaca, Mexico. Heller & Barber.
- 16. Adult ♂ Coll. Zanatepec, State of Oaxaca, Mexico. Heller & Barber.
- 17. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 18. Juv. ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Genus 212. **Potos. Kinkajous.**

**Potos** Cuv. & Geoff., Méth. Mamm., Mag. Encyl., II, 1795, p. 187.

Type *Viverra caudivolvula* Schreber.

*Cercoleptes* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 127.

**743. Potos flavus (Schreber).**

*Viverra flava* Schreb., Säugth., I, 1775, p. 145.

*Viverra caudivolvula* Schreb., Säugth., III, 1777, p. 453, pl. 125.

**KINKAJOU.**

1. Adult — P. "Central America"! Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — Pres. — ? Lincoln Park Menagerie, Chicago.

**a. Potos flavus chiriquensis Allen.**

*Potos flavus chiriquensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1904, p. 72. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 501. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 404. Zool. Ser.

**CHIRIQUI KINKAJOU.**

1-3. Adult ♂ Paratypes. P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

4-6. Adult ♀ Paratypes. P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.



FIG. LIII. POTOS FLAVUS. THE KINKAJOU.



b. *Potos flavus megalotus* (Martin).

*Cercoleptes megalotus* Martin, Proc. Zool. Soc., 1836, p. 81.

*Potos flavus megalotus* Thos., Ann. Mag. Nat. Hist., 7th Ser., ix, 1902, p. 266.

MARTIN'S KINKAJOU.

1. Adult — P. Bonda, Colombia, South America. H. H. Smith.

Family VII. **Mustelidæ. Badgers, Weasels, Otters, etc.**

Subfamily I. **Melinæ.**

Genus 213. **Taxidea. Badgers.**

**Taxidea** Waterh., Proc. Zool. Soc., 1838, pp. 153-154. Type *Ursus labradorius* Gmelin = *Ursus taxus* Schreber.

**744. Taxidea taxus** (Schreber).

*Ursus taxus* Schreb., Säugth., III, 1778, p. 520, pl. CXLII B.

*Meles taxus* var. *B. americanus* Bodd., Elench. Anim., I, 1785, p. 136.

*Ursus labradorius* Gmel., Syst. Nat., I, 1788, p. 102.

*Meles jeffersoni* Harl., Faun. Am., 1825, p. 309.

*Taxidea americana* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 320, fig. 63. Zool. Ser.

*Taxidea taxus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 404. Zool. Ser.

AMERICAN BADGER.

1. Adult ♂ P. Rocky Ford, Otero County, Colorado. B. F. Baymer.

2. Adult ♀ P. Rocky Ford, Otero County, Colorado. B. F. Baymer.

3. Adult — P. Rocky Ford, Otero County, Colorado. B. F. Baymer.

4. Adult ♀ P. Buffalo Lake, Alberta, Canada. G. F. Dippie.

5. Adult ♂ P. Calgary, Alberta, Canada. G. F. Dippie.

6. Adult ♂ Coll. Jamestown, North Dakota. W. E. Snyder.

a. *Taxidea taxus neglecta* (Mearns).

*Taxidea americana neglecta* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 250. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 321. Zool. Ser.

*Taxidea taxus neglecta* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 405. Zool. Ser.



## CALIFORNIA BADGER.

1. Adult ♂ Coll. Mt. Whitney, California. E. Heller.

b. *Taxidea taxus berlandieri* (Baird).

*Taxidea berlandieri* Baird, N. Am. Mamm., 1857, p. 205.

*Taxidea americana berlandieri* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 321. Zoöl. Ser.

*Taxidea taxus berlandieri* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 500, figs. 93, LXX. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 405. Zoöl. Ser.



FIG. LIV. TAXIDEA T. BERLANDIERI. BERLANDIER'S BADGER.

## BERLANDIER'S BADGER.

1. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.

Genus 214. **Mydaus.**

**Mydaus** F. Cuv., Hist. Nat. Mamm., III, 1821, pl. & text. Type  
*Mydaus meliceps* F. Cuvier.

**745. *Mydaus marchii* Huet.**

*Mydaus marchei* Huet, Le Naturaliste, 1887, p. 149, fig. 1.

*Mydaus schadenbergii* Jentink, Notes Leyden Museum, 1895, p. 46, fig. p. 45.

MARCHE'S BADGER.

1. Adult ♂ P. Philippines. Bourns & Worcester.

Genus 215. **Meles.**

**Meles** Briss., Regn. Anim., 2d ed., 1762, p. 183. Type *Meles meles* Brisson=*Ursus meles* Linnæus.

**746. *Meles meles* (Linnæus).**

*Ursus meles* Linn., Syst. Nat., 1, 1758, p. 48; 1, 1766, p. 70.

*Meles taxus* Bodd., Elench. Anim., 1, 1785, p. 80.

*Meles europæus* Desm., Nouv. Dict. Hist. Nat., III, 1820, p. 465.

EUROPEAN BADGER.

1. Adult — P. Germany. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 216. **Mephitis. Skunks.**

**Mephitis** Cuv., Leçons d'anat. Comp., Class Mamm., 1, 1800, Tabl.

1. Type "*Les Moufettes*."

*Chincha* Less., Nouv. Tabl. Règn. Anim., 1842, p. 67.

*Leucomitra* Howell, N. Am. Faun., No. 20, 1901, p. 39, pls. IV, VIII.

Subgenus A. *Chincha*. Large-striped Skunks.

**747. *Mephitis mephitis* (Schreber).**

*Viverra mephitis* Schreb., Säugth., III, 1778, p. 444, Tab. 121.

*Mephitis mephitica* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 322, fig. 64. Zoöl. Ser. (Part.)

*Mephitis mephitis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 406. Zoöl. Ser.

CANADA SKUNK.

1. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.

2-3. Adult ♂ Exch. Hastings, N. Y. Am. Mus. Nat. Hist. N. Y. J. Rowley.

4. Adult ♂ Coll. Murray Bay, Quebec, Canada. T. Surber.
5. Adult ♀ Coll. Murray Bay, Quebec, Canada. T. Surber.
- 6-7. Adult — P. Ontario, Canada. G. F. Dippie.
- 8-9. Adult — Coll. Park Siding, Iron County, Michigan. C. E. Akeley.
- 10-13. Adult ♂ P. Green Bay, Wisconsin. A. Shubert.
- 14-20. Adult ♀ P. Green Bay, Wisconsin. A. Shubert.
- 21-22. Adult — P. Pewaukee, Wisconsin. C. E. Akeley.

**748. *Mephitis hudsonia* (Richardson).**

*Mephitis americana* var. *hudsonica* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 55.

*Mephitis mephitica hudsonia* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 322. Zoöl. Ser.

*Mephitis hudsonia* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 406. Zoöl. Ser.

**NORTHERN PLAINS SKUNK.**

1. Adult — P. "Montana." Ward's Nat. Scien. Establ., Rochester, N. Y.

**749. *Mephitis olida* Boitard.**

*Mephitis putida* G. Cuv., Tab. Élé. Hist. Nat. Anim., 1798, pp. 116, 117. (Indeterminable.) Boitard, Jard. Plantes Paris, Mamm., 1842, p. 147. (Untenable.)

*Mephitis olida* Boitard, Jard. Plantes Paris, Mamm., 1842, p. 147.

*Mephitis fetidissima* Boitard, Jard. Plantes Paris, Mamm., 1842, p. 147.

*Mephitis mephitica* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 322. Zoöl. Ser. (Part.)

*Mephitis olida* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 406. Zoöl. Ser.

**EASTERN SKUNK.**

1. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.

**750. *Mephitis elongata* (Bangs).**

*Mephitis mephitica elongata* Bangs, Proc. Bost. Soc. Nat. Hist., 1895, p. 531.

*Mephitis elongata* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 324. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 406. Zoöl. Ser.

**FLORIDA SKUNK.**

1. Adult ♂ Coll. Enterprise, Florida. T. Surber.



*a. Mephitis mesomelas avia* (Bangs).

*Mephitis avia* Bangs, Proc. Biol. Soc. Wash., XII, 1898, p. 32.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 327. Zoöl. Ser.

*Mephitis mesomelas avia* Elliot, Check-L. Mamm. N. Amer. Cont.

& W. Indies, F. C. M. Pub., VI, 1905, p. 407. Zoöl. Ser.

ILLINOIS SKUNK.

1. Adult ♂ P. Lawrence, Kansas. J. Rowley.

*b. Mephitis mesomelas varians* (Gray).

*Mephitis varians* Gray, Charlesw. Mag. Nat. Hist., I, 1837, p. 581.

*Mephitis mesomelas* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 325. Zoöl. Ser. (nec Licht.)

*Mephitis mesomelas varians* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 407. Zoöl. Ser.

LONG-TAILED TEXAN SKUNK.

1-2. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.

3. Adult ♂ P. Boulder, Colorado. R. T. Young.

**751. *Mephitis estor* Merriam.**

*Mephitis estor* Merr., N. Am. Faun., No. 3, 1890, p. 81. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 326. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 407. Zoöl. Ser.

*Mephitis mesomelas estor* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 509. Zoöl. Ser.

ARIZONA SKUNK.

1-2. Adult ♂ Exch. Pinal County, Arizona. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.

3. Adult ♀ Exch. Prescott, Arizona. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.

4. Adult ♀ P. Santa Catalina Mts., Arizona. W. W. Price.

**752. *Mephitis occidentalis* Baird.**

*Mephitis occidentalis* Baird, N. Am. Mamm., 1857, p. 194. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 324. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 408. Zoöl. Ser.

CALIFORNIA SKUNK.

1. Adult ♀ Coll. Point Reyes, California. E. Heller.

2-4. Adult ♂ Coll. Requa, California. E. Heller.

5-6. Adult ♀ Coll. Requa, California. E. Heller.

7. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.



*a. Mephitis occidentalis spissigrada* (Bangs).

*Mephitis spissigrada* Bangs, Proc. Biol. Soc. Wash., XII, 1898, p.

31. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p.

326. Zoöl. Ser.

*Mephitis fæstulenta* Elliot, Pub. Field Columb. Mus., I, 1899, p. 269.

Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,

p. 326. Zoöl. Ser.

*Mephitis occidentalis spissigrada* Elliot, Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 408. Zoöl. Ser.

PUGET SOUND SKUNK.

1-6. Adult — Coll. Port Angeles, Washington. D. G. Elliot.

*b. Mephitis occidentalis holzneri* Mearns.

*Mephitis occidentalis holzneri* Mearns, Proc. U. S. Nat. Mus., XX,

1897, p. 461. Elliot, Mamm. Middle Amer. & W. Indies, F.

C. M. Pub., IV, Pt. II, 1904, p. 507, fig. 94. Zoöl. Ser. *Id.*

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,

VI, 1905, p. 409. Zoöl. Ser.

LOWER CALIFORNIA SKUNK.

1. Adult ♂ Coll. Oro Grande, Mohave Desert, California. E. Heller.

2-3. Adult ♀ Coll. Oro Grande, Mohave Desert, California. E. Heller.

**753. *Mephitis platyrhina* (Howell).**

*Chincha platyrhina* Howell, N. Am. Faun., No. 20, 1901, p. 39.

*Mephitis platyrhina* Elliot, Check-L. Mamm. N. Amer. Cont. &

W. Indies, F. C. M. Pub., VI, 1905, p. 409. Zoöl. Ser.

BROAD-NOSED SKUNK.

1. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.

Subgenus B. *Leucomitra*. Hooded Skunks.

**754. *Mephitis macrura* Lichtenstein.**

*Mephitis macroura* Licht., Darst. neuer oder wenig bekannt.

Säugeth., 1832, pl. XLVI.

*Mephitis macrura* Elliot, Mamm. Middle Amer. & W. Indies, F.

C. M. Pub., IV, Pt. II, 1904, p. 510, figs. 95, LXXI. Zoöl. Ser.

*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.

Pub., VI, 1905, p. 410. Zoöl. Ser.

HOODED SKUNK.

1. Adult ♂ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

2. Adult ♀ Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

3. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.
4. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
5. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

*a. Mephitis macrura milleri* (Mearns).

*Mephitis milleri* Mearns, Proc. U. S. Nat. Mus., xx, 1897, p. 467.



FIG. LV. MEPHITIS MACRURA. HOODED SKUNK.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 325. Zoöl. Ser.

*Mephitis macrura milleri* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 511. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 410. Zoöl. Ser.

#### MILLER'S SKUNK.

1-3. Juv. ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

### Genus 217. *Conepatus*.

**Conepatus** Gray, Charlesw. Mag. Nat. Hist., 1837, p. 581. Type *Conepatus humboldtii* Gray.

*Marputius* Gray, Charlesw. Mag. Nat. Hist., 1837, p. 581.

*Thiosmus* Licht., Abh. K. Akad. Wiss. Berl., 1838, p. 270.

*Ozoliclis* Glog., Hand-u. Hilfsb. Naturg., 1841, p. 57.

*Rhinozolis* Glog., Hand-u. Hilfsb. Naturg., 1841, p. 58.

*Oryctogale* Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 161.

#### Subgenus A. *Conepatus*.

### 755. *Conepatus leuconotus* (Lichtenstein).

*Mephitis leuconota* Licht., Darst. neuer oder wenig bekannt. Säugeth., 1832, text, pl. XLIV, fig. 1.

*Conepatus leuconotus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 515. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 411. Zoöl. Ser.

#### WHITE-SPOTTED SKUNK.

1. Adult ♂ Coll. Zanatepec, State of Oaxaca, Mexico. Heller & Barber.

#### a. *Conepatus mesoleucus mearnsi* Merriam.

*Conepatus mapurito* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, Suppl., p. 510, pl. LVI. Zoöl. Ser. (nec Gmelin.)

*Conepatus mesoleucus mearnsi* Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 163. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 516, figs. 96, LXXII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 411. Zoöl. Ser.

#### MEARNS'S SKUNK.

1. Adult ♂ Exch. Pinal County, Arizona. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.





FIG. LVI. *CONEPATUS M. MEARNSI*. MEARN'S SKUNK.

Subgenus B. *Marputius*.

**756. *Conepatus tropicalis* Merriam.**

*Conepatus tropicalis* Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 164. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. II, 1904, p. 517, fig. 97. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 412. Zool. Ser.

**MOTZORONGO SKUNK.**

1. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Genus 218. ***Spilogale*. Little Spotted Skunks.**

***Spilogale* Gray**, Proc. Zool. Soc., 1865, p. 150. Type *Mephitis interrupta* Rafinesque.

**757. *Spilogale interrupta* (Rafinesque).**

*Mephitis interrupta* Rafin., Ann. Nat., 1, 1820, p. 3.

*Mephitis bicolor* Gray, Charlesw. Mag. Nat. Hist., 1, 1837, p. 581.



*Mephitis quaterlinearis* Winans, in Coues, Fur-bear. Anim., 1877, p. 239.

*Spilogale interrupta* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 328. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 523, figs. 98, LXXIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 412. Zoöl. Ser.



FIG. LVII. SPILOGALE INTERRUPTA. WHITE-SPOTTED SKUNK.

#### WHITE-SPOTTED SKUNK.

- 1-4. Adult ♂ Coll. Alva, Oklahoma Territory. T. Surber.
- 5. Adult ♀ Coll. Alva, Oklahoma Territory. T. Surber.
- 6-7. Adult ♂ P. Lawrence, Kansas. J. Rowley.
- 8. Adult ♀ P. Lawrence, Kansas. J. Rowley.

#### 758. *Spilogale ringens* Merriam.

*Spilogale ringens* Merr., N. Am. Faun., No. 4, 1890, p. 9. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 329. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 413. Zoöl. Ser.

#### GROWLING SPOTTED SKUNK.

- 1. Adult ♀ Topotype. Exch. Greensboro, Alabama. Am. Mus. Nat. Hist. N. Y. W. C. Avery.

**759. *Spilogale indianola* Merriam.**

*Spilogale indianola* Merr., N. Am. Faun., No. 4, 1890, p. 10.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 329.  
 Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,  
 F. C. M. Pub., VI, 1905, p. 413. Zool. Ser.

**INDIANOLA SPOTTED SKUNK.**

1. Adult ♂ Exch. Rockford, Texas. Am. Mus. Nat. Hist. N. Y.  
 H. D. Attwater.

**760. *Spilogale tenuis* Howell.**

*Spilogale tenuis* Howell, Proc. Biol. Soc. Wash., xv, 1902, p. 241.  
 Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.  
 Pub., VI, 1905, p. 413. Zool. Ser.

**SLENDER SPOTTED SKUNK.**

1. Adult ♂ P. Boulder, Colorado. R. T. Young.

**761. *Spilogale phenax* Merriam.**

*Spilogale phenax* Merr., N. Am. Faun., No. 4, 1890, p. 13. Elliot,  
 Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 331. Zool.  
 Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C.  
 M. Pub., VI, 1905, p. 414. Zool. Ser.

**CHEATING SPOTTED SKUNK.**

1. Adult ♂ P. Snow Mts., Colusa County, California. W. W.  
 Price.
2. Adult ♀ Topotype. Exch. Nicasio, California. Am. Mus.  
 Nat. Hist. N. Y. C. A. Allen.
- 3-6. Adult ♂ Coll. Petaluma, California. E. Heller.
- 7-8. Adult ♀ Coll. Petaluma, California. E. Heller.
9. Adult ♂ Coll. Fort Tejon, California. E. Heller.
10. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
- 11-12. Adult ♂ Coll. Marshfield, Oregon. E. Heller.

**a. *Spilogale phenax latifrons* Merriam.**

*Spilogale phenax latifrons* Merr., N. Am. Faun., No. 4, 1890, p.  
 15. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p.  
 331. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &  
 W. Indies, F. C. M. Pub., VI, 1905, p. 414. Zool. Ser.

**BROAD-HEADED SPOTTED SKUNK.**

1. Adult — P. "Tacoma," Washington. Ward's Nat. Scien.  
 Establ., Rochester, N. Y.
2. Adult ♂ Coll. Marshfield, Oregon. E. Heller.
3. Adult ♀ Coll. Marshfield, Oregon. E. Heller.
- 4-5. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
- 6-7. Adult ♀ Coll. Gardiner, Oregon. E. Heller.

- 8-9. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.  
 10. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.  
 11-12. Adult ♂ Coll. Beaverton, Oregon. E. Heller.  
 13. Adult ♀ Coll. Beaverton, Oregon. E. Heller.

*a. Spilogale arizonæ martirensis* Elliot.

*Spilogale arizonæ martirensis* Elliot, Pub. Field Columb. Mus., III, 1903, p. 170. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 521. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 414. Zoöl. Ser.

SAN PEDRO MARTIR SPOTTED SKUNK.

- 1-2. Adult ♂ Type and paratype. Coll. Vallecitos, San Pedro Martir Mts., Lower California, Mexico. E. Heller.

**762. *Spilogale olympica* Elliot.**

*Spilogale olympica* Elliot, Pub. Field Columb. Mus., I, 1899, p. 270. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 332. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 415. Zoöl. Ser.

OLYMPIC MOUNTAINS SPOTTED SKUNK.

1. Adult ♂ Type. Coll. Port Angeles, Washington. D. G. Elliot.  
 2-6. Adult — Paratypes. Coll. Port Angeles, Washington. D. G. Elliot.

**763. *Spilogale ambarvalis* Bangs.**

*Spilogale ambarvalis* Bangs, Proc. Bost. Soc. Nat. Hist., 1898, p. 222. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 332. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 415. Zoöl. Ser.

FIELD SPOTTED SKUNK.

1. Adult ♂ Coll. Micco, Florida. T. Surber.  
 2. Adult ♂ Topotype. Coll. Oak Lodge, Florida. T. Surber.

**764. *Spilogale gracilis* Merriam.**

*Spilogale gracilis* Merr., N. Am. Faun., No. 4, 1890, p. 83. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 330. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 415. Zoöl. Ser.

GRACEFUL SKUNK.

- 1-3. Adult ♂ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.

- 4-6. Adult ♀ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
7. Adult ♂ Exch. Pinal County, Arizona. Am. Mus. Nat. Hist. N. Y. W. E. D. Scott.
8. Adult ♀ P. Huachuca Mts., Arizona. W. W. Price.

### Subfamily II. **Mustelinæ.**

#### Genus 219. **Gulo. Wolverine.**

**Gulo** Frisch, Das Nat.-Syst. vierfüß. Thiere, in Tabellen, 17. Tab. Gen., 1775. Type *Mustela gulo* Linnæus.

#### 765. **Gulo luscus** (Linnæus).

*Ursus luscus* Linn., Syst. Nat., I, 1758, p. 47.

*Gulo luscus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901. p. 333. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 416. Zoöl. Ser.

#### WOLVERINE.

1. Adult — P. Canada. Ward's Nat. Scien. Establ., Rochester, N. Y.
- 2-4. Adult — P. Canterbury Station, New Brunswick, Canada. C. F. Periolat.

#### 766. **Gulo luteus** Elliot.

*Gulo luteus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 200. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 417. Zoöl. Ser.

#### BUFF-COLORED WOLVERINE.

1. Adult — Pres. Yakutat, Alaska. T. Trelease.
2. Juv. ♂ Type. Coll. Mt. Whitney, California. E. Heller.

#### 767. **Gulo hylæus** Elliot.

*Gulo hylæus* Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 81. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 417. Zoöl. Ser.

#### MOUNT MCKINLEY WOLVERINE.

- 1-6. Adult — Type and paratypes. P. Sushitna River, Mt. McKinley Region, Alaska. C. F. Periolat.

#### Genus 220. **Galera. The Grisons.**

**Galera** Browne, Civil and Naval Hist. Jamaica, 2d ed., 1789. p. 485. Type *Mustela barbara* Linnæus.



*Grison* Oken, Lehrb. der Naturg., Zool., II, 1816, pp. XI, 1000.

*Tayra* Oken, Lehrb. der Naturg., Zool., II, 1816, p. 1001.

*Grisonia* Gray, Thos. Ann. Phil., XXVI, 1825, p. 339.

*Laira* F. Cuv., Hist. Nat. Mamm., V, 1826, livr. XLV.

*Galictis* Bell, Zool. Jour., II, 1826, p. 551.

*Galidictis* I. Geoff., Mag. Zool., Mamm., 1839, p. 32.

Sugbenus A. *Tayra*.

**768. *Galera barbara* (Linnæus).**

*Mustela barbara* Linn., Syst. Nat., I, 1758, p. 46; I, 1766, p. 67.

*Viverra poliocephala* Traill, Mem. Wern. Soc., III, p. 440, pl. XXII.

SOUTH AMERICAN GRISON.

1. Adult — P. Rio Janeiro, South America. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Galera barbara irara* (Allen).

*Tayra barbara irara* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1904, p. 37.

COLOMBIAN GRISON.

1. Adult — P. Minca, Colombia, South America. H. H. Smith.
2. Adult — P. Don Diego, Colombia, South America. H. H. Smith.

Genus 221. ***Mustela*. Martens or Sables, Fishers.**

***Mustela*** Linn., Syst. Nat., I, 1758, p. 45; I, 1766, p. 66. Type *Mustela martes* Linnæus.

**769. *Mustela americana* Turton.**

*Mustela martes* Forst., Phil. Trans., 1772, p. 372. (nec Linn.)

*Mustela zibellina* Pall., Spicil. Zool., XIV, 1780?, p. 57. *Id.* Zoog.

Rosso-Asiat., I, 1831, p. 84. (nec Linn.)

*Mustela americanus* Turton, Linn. Syst. Nat., I, 1806, p. 60.

*Mustela vulpina* Rafin., Am. Jour. Scien., I, 1819, p. 82.

*Mustela leucopus* Kuhl, Beitr. Zool. u. Anat., 1820, p. 74.

*Mustela huro* F. Cuv., Dict. Scien. Nat., XXIX, 1823, p. 256.

*Mustela americana* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 334, fig. 66. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 419. Zool. Ser.

AMERICAN MARTEN, HUDSON BAY SABLE.

1. Adult — P. Montana. Ward's Nat. Scien. Establ., Rochester, N. Y.

- 2-3. Adult ♀ Exch. Trousters Lake, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
4. Adult ♂ P. Haliburton County, Ontario, Canada. G. F. Dippie.
5. Adult ♀ P. Haliburton County, Ontario, Canada. G. F. Dippie.
6. Adult ♂ P. French River, Georgian Bay, Ontario, Canada. G. F. Dippie.
7. Adult — P. Florence County, Wisconsin. C. E. Akeley.

*a. Mustela americana actiosa* Osgood.

- Mustela americana actiosa* Osgood, N. Am. Faun., No. 19, 1900, p. 43. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 336. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 420. Zoöl. Ser.

ACTIVE MARTEN.

- 1-10. Adult — P. Unalaklik, Alaska. C. F. Periolat.

**770. *Mustela boria* Elliot.**

- Mustela boria* Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 139. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 421. Zoöl. Ser.

FARTHEST NORTH MARTEN.

- 1-5. Adult — Type and paratypes. P. Lower Mackenzie River District, Alaska. C. F. Periolat.

**771. *Mustela kenaiensis* (Elliot).**

- Mustela americana kenaiensis* Elliot, Pub. Field Columb. Mus., III, 1903, p. 151, pl. xxxii. Zoöl. Ser.

- Mustela kenaiensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 421. Zoöl. Ser.

KENAI PENINSULA MARTEN.

- 1-6. Adult — Type and paratypes. P. Kenai Peninsula, Alaska. C. F. Periolat.

*a. Mustela caurina origenes* Rhoads.

- Mustela caurina origenes* Rhoads, Proc. Acad. Nat. Scien. Phil., 1902, p. 458. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 422. Zoöl. Ser.

ROCKY MOUNTAIN MARTEN.

1. Adult ♂ P. Boulder County, Colorado. R. T. Young.  
2-4. Adult ♀ P. Boulder County, Colorado. R. T. Young.

**772. *Mustela canadensis* Schreber.**

- Mustela canadensis* Schreb., Säugth., III, 1778, p. 492, pl. cxxiv,

1776. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 422. Zoöl. Ser.

*Mustela pennanti* Erxl., Syst. Regn. Anim., 1777, p. 470. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 337. Zoöl. Ser.

*Mustela melanorhyncha* Bodd., Elench. Anim., 1785, p. 88.

*Viverra piscator* Shaw, Gen. Zoöl., I, 1800, p. 414.

*Mustela nigra* Turton, Linn. Syst. Nat., I, 1806, p. 60.

*Mustela godmani* Fisch., Syn. Mamm., 1829, p. 217.

#### PENNANT'S FISHER.

1. Adult — P. Maine. Ward's Nat. Scien. Establ., Rochester, N. Y.

2-3. Adult — P. Park Siding, Michigan. Rheinbold.

4. Adult ♂ P. Amasa, Iron County, Michigan. C. E. Akeley.

#### a. *Mustela canadensis pacifica* Rhoads.

*Mustela canadensis pacifica* Rhoads, Trans. Am. Philos. Soc., 1898, p. 435. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 423. Zoöl. Ser.

*Mustela pennanti pacifica* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 337. Zoöl. Ser.

#### PACIFIC FISHER.

1. Adult ♂ Coll. Solduc Trail, Olympic Mts., Washington. D. G. Elliot.

2. Adult ♀ Coll. Barnes Creek, Lake Crescent, Washington. D. G. Elliot.

#### 773. *Mustela foina* Erxleben.

*Mustela foina* Erxl., Syst. Regn. Anim., 1777, p. 458.

#### BEECH MARTEN.

1. Adult — P. Europe. Ward's Nat. Scien. Establ., Rochester, N. Y.

#### 774. *Mustela flavigula* Boddaert.

*Mustela flavigula* Bodd., Elench. Anim., 1785, p. 88.

*Martes flavigula* Blyth, Jour. Asiat. Soc. Beng., xxvi, p. 316.

*Galidictis chrysogaster* Jard., Nat. Lib., XIII, 1842, p. 167, pl. VII.

#### INDIAN MARTEN.

1. Adult — P. India. Ward's Nat. Scien. Establ., Rochester, N. Y.

#### 775. *Mustela henrici* Westermann.

*Mustela henrici* Westerm., Bydr. Dierk., I, 1849, p. 13, pl. I.

#### EAST INDIES MARTEN.

1. Adult — P. Sumatra. Ward's Nat. Scien. Establ., Rochester, N. Y.

**776. *Mustela melampus* Temminck.**

*Mustela melampus* Temm., Faun. Japon., 1842, p. 31, pl. VII, figs. 3-4.

*Martes melanopus* Gray, Proc. Zool. Soc., 1865, p. 105.

**JAPANESE MARTEN.**

1. Adult — P. Japan. Ward's Nat. Scien. Establ., Rochester, N. Y.

**Genus 222. *Putorius*. Mink, Weasels.**

***Putorius*** Frisch, Das Nat.-Syst. vierfüß. Thiere, in Tabellen, XI, Tab.

Gen., 1775. Type *Mustela putorius* Linnæus.

*Arctogale* Kaup, Entw.-Gesch. Nat. Syst. der Europ. Thierw., I, 1829, p. 30. (nec Peters.)

*Ictis* Kaup, Entw.-Gesch. Nat. Syst. der Europ. Thierw., I, 1829, p. 40.

*Gale* Wagn., Schreb. Säugth., Suppl., II, 1841, p. 234.

*Lutreola* Wagn., Schreb. Säugth., Suppl., II, 1841, p. 239.

*Vison* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 64.

*Neogala* Gray, Proc. Zool. Soc., 1865, p. 114.

*Cynomyonax* (sic) Coues, Fur-bear. Anim., 1877, p. 147.

**Subgenus A. *Lutreola*. Mink.****777. *Putorius vison* (Schreber).**

*Mustela lutreola* Forst., Phil. Trans., LXII, 1772, p. 371. (nec Linn.)

*Mustela vison* Schreb., Säugth., III, 1777, p. 463.

*Mustela canadensis* Erxl., Syst. Regn. Anim., I, 1777, p. 455. (nec *M. l. canadensis* Schreber, 1777.)

*Mustela winingus* Barton, Am. Phil. Trans., VI, 1809, p. 70.

*Mustela minx* Ord, Guth. Geog., 2d Amer. ed., II, 1815, p. 291.

*Mustela lutrecephala* Harl., Faun. Amer., 1825, p. 63.

*Putorius nigrescens* Aud. & Bach., Quad. N. Amer., III, 1853, p. 104, pl. CXXIV.

*Putorius vison* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 338, fig. 67. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 423. Zool. Ser.

*Putorius vison lutrecephalus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 339. Zool. Ser.



COMMON MINK.

1. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult — Pres. Hicksville, Ohio. H. Meek.
3. Adult ♂ P. Winnipeg, Manitoba. C. K. Worthern.
4. Adult — Pres. Park Siding, Michigan. C. E. Akeley.
5. Adult ♂ P. Branchtown, Ontario, Canada. G. F. Dippie.
6. Adult ♀ P. Branchtown, Ontario, Canada. G. F. Dippie.
7. Adult ♂ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
8. Adult ♀ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
9. Adult ♂ Coll. Lake Edward, Quebec, Canada. T. Surber.
10. Adult ♀ Coll. Lake Edward, Quebec, Canada. T. Surber.
11. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.
12. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
13. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- 14-15. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
16. Adult ♂ Coll. Calhoun Falls, South Carolina. T. Surber.
17. Adult ♂ Coll. Pres. Dowagiac, Michigan. C. L. Dewey.

a. *Putorius vison energumenus* Bangs.

*Putorius vison energumenus!* Bangs, Proc. Bost. Soc. Nat. Hist., 1896, p. 5.

*Putorius vison energumenus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 340. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 424. Zoöl. Ser.

DEVILISH MINK.

- 1-3. Adult — Coll. Port Angeles, Washington. D. G. Elliot.

778. *Putorius melampeplus* (Elliot).

*Putorius vison melampeplus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 170. Zoöl. Ser.

*Putorius melampeplus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 425. Zoöl. Ser.

DARK-HUED MINK.

1. Adult ♂ Type. P. Kenai Peninsula, Alaska. C. F. Periolat.
- 2-3. Adult — Paratypes. P. Kenai Peninsula, Alaska. C. F. Periolat.

Subgenus B. *Cynomyanax*.**779. *Putorius nigripes* Audubon & Bachman.**

*Putorius nigripes* Aud. & Bachm., Quad. N. Am., II, 1851, p. 297. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 341, fig. 68. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 425. Zool. Ser.

**BLACK-FOOTED MINK.**

1. Adult ♀ P. Gleichen, Alberta, Canada. G. F. Dippie.

Subgenus C. *Arctogale*. Weasels.**780. *Putorius cicognani* (Bonaparte).**

*Mustela (Putorius) vulgaris* Rich., Faun. Bor. Amer., Mamm., I, 1829, p. 45. (nec Brisson.)

*Mustela cicognanii* Bonap., Iconog. Faun. Ital., I, fasc. XXII, 1838, p. 4.

*Putorius cicognani* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 344, fig. 69. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 426. Zool. Ser.

**COMMON WEASEL.**

1. Adult — Pres. Fort Sheridan, Illinois. H. K. Coales.
2. Adult — Pres. Tomahawk Lake, Wisconsin. H. T. Chace.
3. Adult ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 4-5. Adult ♂ P. Aitkin, Minnesota. C. K. Worthern.
6. Adult ♂ P. Chilliwack, British Columbia, Canada. G. F. Dippie.
7. Adult ♂ P. Sumas, British Columbia, Canada. G. F. Dippie.
8. Adult ♀ P. Carpenters Mt., British Columbia, Canada. C. K. Worthern.
9. Juv. ♂ P. Carpenters Mt., British Columbia, Canada. C. K. Worthern.
10. Adult ♂ P. Simcoe Co., Ontario, Canada. G. F. Dippie.
11. Adult ♂ P. Gooderham, Ontario, Canada. G. F. Dippie.

**a. *Putorius cicognani richardsoni* (Bonaparte).**

*Mustela richardsonii* Bonap., Charlesw. Mag. Nat. Hist., II, 1838, p. 38.

*Putorius cicognani richardsoni* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 344. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 426. Zool. Ser.

**RICHARDSON'S WEASEL.**

1. Adult ♂ P. Forks of Blindman and Red Deer Rivers, Alberta, Canada. G. F. Dippie.
2. Adult ♂ P. Red Deer, Alberta, Canada. G. F. Dippie.
3. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.
4. Adult — P. Revelstoke, Alberta, Canada. G. F. Dippie.
5. Adult ♂ P. Cariboo, British Columbia, Canada. C. K. Worthern.
6. Adult ♂ Coll. Minot, N. Dakota. W. E. Snyder.

**781. *Putorius streator* Merriam.**

*Putorius streator* Merr., N. Am. Faun., No. 11, 1896, p. 13. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 345. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 427. Zoöl. Ser.

**STREATOR'S WEASEL.**

- 1-2. Adult ♂ Coll. Happy Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
3. Adult ♂ Coll. Boulder Lake, Olympic Mts., Clallam County, Washington. D. G. Elliot.
4. Adult ♂ Coll. Johnson's Ranch, Elwah River, Clallam County, Washington. D. G. Elliot.
5. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
6. Adult ♂ Coll. Beaverton, Oregon. E. Heller.
7. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
8. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.

**a. *Putorius streator leptus* Merriam.**

*Putorius streator leptus* Merr., Proc. Biol. Soc. Wash., XVI, 1903, p. 76. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 427. Zoöl. Ser.

**FEEBLE WEASEL.**

1. Adult ♀ P. Boulder County, Colorado. R. T. Young.

**782. *Putorius rixosus* Bangs.**

*Putorius rixosus* Bangs, Proc. Biol. Soc. Wash., x, 1896, p. 21. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 345. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 428. Zoöl. Ser.

**PUGNACIOUS WEASEL.**

1. Adult ♂ P. Forks of Blindman & Red Deer Rivers, Alberta, Canada. G. F. Dippie.

**783. *Putorius arcticus* Merriam.**

*Putorius arcticus* Merr., N. Am. Faun., No. 11, 1896, p. 15. Elliot,

Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 345. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 428. Zoöl. Ser.

## ARCTIC WEASEL.

1. Adult ♂ P. Howkan, Alaska. G. G. Cantwell.

a. *Putorius arcticus kadiacensis* Merriam.

*Putorius arcticus kadiacensis* Merr., N. Am. Faun., No. 11, 1896, p. 16. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 346. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 428. Zoöl. Ser.

## KADIAK ISLAND WEASEL.

1. Adult — Topotype. Pres. Kadiak Island, Alaska. G. F. Sargent.

784. *Putorius noveboracensis* Emmons.

*Putorius noveboracensis* Emmons, Rep. Quad. Mass., 1840, p. 45. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 346. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 429. Zoöl. Ser.

## NORTHERN WEASEL.

1. Adult ♂ Pres. Bloomingdale Spring, Illinois. B. T. Gault.
2. Adult ♀ Pres. Milton Spring, Du Page Co., Illinois. B. T. Gault.
3. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
4. Adult ♂ Exch. Trousers Lake, New Brunswick, Canada. Am. Mus. Nat. Hist. N. Y. J. Rowley.
5. Adult — Pres. Erie, Pennsylvania. G. B. Sennett.
- 6-7. Adult ♂ P. Branchtown, Ontario, Canada. G. F. Dippie.
8. Adult ♀ P. Waterloo County, Ontario, Canada. G. F. Dippie.
9. Adult ♂ P. Orillia, Lake Simcoe, Ontario, Canada. G. F. Dippie.
10. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Putorius noveboracensis notius* Bangs.

*Putorius noveboracensis notius* Bangs, Proc. N. Eng. Zoöl. Club, 1, 1899, p. 53. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 346. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 429. Zoöl. Ser.

## SOUTHERN WEASEL.

1. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.



**785. *Putorius washingtoni* Merriam.**

*Putorius washingtoni* Merr., N. Am. Faun., No. 11, 1896, p. 18.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 347.  
 Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,  
 F. C. M. Pub., VI, 1905, p. 429. Zoöl. Ser.

**WASHINGTON WEASEL.**

1. Adult ♀ Coll. Happy Lake, Olympic Mts., Clallam County,  
 Washington. D. G. Elliot.

**786. *Putorius peninsulæ* Rhoads.**

*Putorius peninsulæ* Rhoads, Proc. Acad. Nat. Scien. Phil., 1894,  
 p. 152. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901,  
 p. 347. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. &  
 W. Indies, F. C. M. Pub., VI, 1905, p. 429. Zoöl. Ser.

**FLORIDA WEASEL.**

1. Adult — Coll. Enterprise, Florida. T. Surber.

**787. *Putorius longicaudus* (Bonaparte).**

*Mustela (Putorius) erminea* Rich., Faun. Bor. Amer., Mamm., 1,  
 1829, p. 46. (Part.)

*Mustela longicauda* Bonap., Charlesw. Mag. Nat. Hist., 11, 1838,  
 p. 38.

*Putorius longicaudus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
 11, 1901, p. 348. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 430. Zoöl. Ser.

**LONG-TAILED WEASEL.**

1. Adult ♂ P. Eagle Creek, Montana. E. Seton Thompson.
2. Adult ♂ P. Boulder, Colorado. R. T. Young.
3. Adult ♀ P. Red Deer, Alberta, Canada. G. F. Dippie.
4. Adult ♀ P. Orillia, Lake Simcoe, Canada. G. F. Dippie.
5. Adult ♂ P. Branchtown, Ontario, Canada. G. F. Dippie.
6. Adult ♂ P. Gooderham, Ontario, Canada. G. F. Dippie.
7. Adult ♂ P. Canadian Nat. Park, Alberta, Canada. G. F.  
 Dippie.
- 8-11. Adult ♂ P. Calgary, Alberta, Canada. G. F. Dippie.
- 12-13. Adult ♀ P. Calgary, Alberta, Canada. G. F. Dippie.
14. Adult ♂ P. Carmen, Manitoba, Canada. G. F. Dippie.

**a. *Putorius longicaudus spadix* Bangs.**

*Putorius longicauda spadix* Bangs, Proc. Biol. Soc. Wash., x,  
 1896, p. 8.

*Putorius spadix* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11,  
 1901, p. 348. Zoöl. Ser.

*Putorius longicaudus spadix* Elliot, Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 430. Zoöl. Ser.

## CHESTNUT-BROWN WEASEL.

1. Adult ♂ Topotype. Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.

788. *Putorius arizonensis* Mearns.

- Putorius arizonensis* Mearns, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 234. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 349. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 431. Zoöl. Ser.

## ARIZONA WEASEL.

1. Adult ♂ P. Mt. Siegel, Nevada. W. W. Price.
2. Adult ♂ P. Silver Lake, Boulder County, Colorado. R. T. Young.

789. *Putorius xanthogenys* (Gray).

- Mustela xanthogenys* Gray, Ann. Mag. Nat. Hist., 1st Ser., XI, 1843, p. 118.

- Putorius xanthogenys* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 349. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 431. Zoöl. Ser.

## YELLOW-CHEEKED WEASEL.

1. Adult ♂ P. Palo Alto, California. E. Heller.
2. Adult ♂ Pres. Palo Alto, California. A. G. Maddren.
3. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller.
4. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.

a. *Putorius xanthogenys mundus* Bangs.

- Putorius xanthogenys mundus* Bangs, Proc. N. Eng. Zoöl. Club, 1, 1899, p. 56. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 350. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 431. Zoöl. Ser.

## DECORATED WEASEL.

1. Adult ♂ Coll. Nicasio, California. E. Heller.
2. Adult ♀ Topotype. Coll. Point Reyes, California. E. Heller.

b. *Putorius xanthogenys oregonensis* Merriam.

- Putorius xanthogenys oregonensis* Merr., N. Am. Faun., No. 11, 1896, p. 25. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 350. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 431. Zoöl. Ser.

## OREGON WEASEL.

- 1-2. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
3. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.

**790. *Putorius frenatus* (Lichtenstein).**

*Mustela frenata* Licht., Darst. neuer oder wenig bekannt. Säugeth., 1832, pl. XLII.

*Putorius frenatus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 350. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 532, figs. 101, LXXV. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 432. Zoöl. Ser.



FIG. LVIII. PUTORIUS FRENATUS. BRIDLED WEASEL.

**BRIDLED WEASEL.**

1. Adult ♀ Exch. Brownsville, Texas. Am. Mus. Nat. Hist. N. Y. E. C. Greenwood.
2. Adult ♀ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.

**791. *Putorius macrophonus* Elliot.**

*Putorius macrophonus* Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 235.

**GIANT WEASEL.**

1. Adult ♂ Type. Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
2. Juv. ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber.

Subfamily III. **Lutrinæ.**Genus 223. **Lutra. Otters.**

**Lutra** Briss., Regn. Anim., 2d ed., 1762, p. 201. Type *Mustela lutra* Linnæus.

*Lataxina* Gray, List Spec. Mamm. Brit. Mus., 1843, pp. xxi, 70.

*Lataxia* Gerv., Hist. Nat. Mamm., II, 1855, p. 118.

**792. Lutra vulgaris** Erxleben.

*Lutra vulgaris* Erxl., Syst. Regn. Anim., 1777, p. 448.

*Lutra nair* F. Cuv., Dict. Scien. Nat., xxvii, 1823, p. 247.

*Lutra roensis* Ogilby, Proc. Zool. Soc., 1834, p. 111.

*Lutronektes whiteleyi* Gray, Proc. Zool. Soc., 1867, p. 180, fig.

## COMMON OTTER.

1. Adult — P. Japan. Ward's Nat. Scien. Establ., Rochester, N. Y.

**793. Lutra canadensis** (Schreber).

*Mustela lutra canadensis* Schreb., Säugth., text, 1778, pl. cxxvi B, 1776.

*Mustela (Lutra) canadensis* Kerr, Anim. Kingd., 1792, No. 337.

*Lutra lataxina* F. Cuv., Dict. Scien. Nat., 1823, xxvii, p. 213.

*Lutra hudsonica* F. Cuv., Suppl. Buffon, I, 1831, p. 194.

*Lataxina mollis* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 70.

*Lutra canadensis* Aud. & Bachm., Quad. N. Am., III, 1853, p. 97, pl. cxxii (Fig. type of *Lataxina mollis* Gray). Elliot, Syn. N.

Am. Mamm., F. C. M. Pub., II, 1901, p. 352. Zool. Ser. Id.

Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 433. Zool. Ser.

## CANADA OTTER.

1. Adult — P. "South Carolina." Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — P. Eagle Lake, Wisconsin. C. E. Akeley.

*a. Lutra canadensis pacifica* (Rhoads).

*Lutra hudsonica pacifica* Rhoads, Trans. Am. Phil. Soc., N. S., XIX, 1898, p. 429.

*Lutra canadensis pacifica* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 353. Zool. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 434. Zool. Ser.

## PACIFIC OTTER.

1-3. Adult — P. Kenai Peninsula, Alaska. C. F. Periolat.



Genus 224. **Latax.** Sea Otters.

**Latax** Glog., Nov. Acta Phys. Med. Acad. Cæs. Leop.-Carol., XIII, Pt. II, 1827, p. 511. Type *Lutra marina* Erxleben = *Mustela lutris* Linnæus.

*Pusa* Oken, Lehrb. der Naturg., Thiel. III, 2te Abth., 1816, p. 986. (nec Scopoli.)

*Enhydra* Flem., Phil. Zoöl., II, 1822, p. 187. (nec *Enhydris* Merrem, Rept.)



FIG. LIX. LATAx LUTRIS. NORTHERN SEA OTTER.

**794. \* *Latax lutris* (Linnæus).**

*Mustela lutris* Linn., Syst. Nat., I, 1758, p. 45; I, 1766, p. 66.

*Lutra marina* Erxl., Syst. Reg. Anim., 1777, p. 445.

*Pusa orientalis* Oken, Lehrb. der Naturg., Thiel III, 2te Abth., 1816, p. 986.

\* *Latax lutris* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 537, Zoöl. Ser., (nec pl. LII,) may more properly refer to the *Latax lutris nereis* Merr. rather than to the present species.

*Lutra stelleri* Less., Man. Mamm., 1827, p. 156.

*Enydris* (sic) *gracilis* Fisch., Syn. Mamm., 1829, p. 229.

*Latax lutris* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901,  
p. 354, pl. xxxviii. Zoöl. Ser. *Id.* Check-L. Mamm. N.  
Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 436.  
Zoöl. Ser.

NORTHERN SEA OTTER.

1-2. Juv. — P. Alaska. Ward's Nat. Scien. Establ., Rochester,  
N. Y.

## Order VIII. **Pinnipedia. Sea-lions, Seals, etc.**

### Family I. **Otariidæ. Sea-lions.**

#### Genus 225. **Eumetopias.**

**Eumetopias** Gill, Proc. Essex Institute, v, 1866, pp. 7, 11. Type  
*Otaria stelleri* Lesson = *Phoca jubata* Schreber.

#### **795. Eumetopias jubata** (Schreber).

*Phoca jubata* Schreb., Säugth., III, 1778, p. 300, pl. LXXXIII B.

*Otaria jubata* Péron and Lesueur, Voy. Terr. Austr., III, 1816, p. 40.

*Otaria stelleri* Less., Dict. Class. Hist. Nat., XIII, 1828, p. 420.

*Phoca leonina* Pall., Zoog. Rosso-Asiat., I, 1831, p. 104.

*Arctocephalus monteriensis* Gray, Proc. Zool. Soc., 1859, p. 358,  
pl. LXXII.

*Eumetopias stelleri* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
II, 1901, p. 355, pl. xxxix. Zool. Ser.

*Eumetopias jubata* Elliot, Check-L. Mamm. N. Amer. Cont. &  
W. Indies, F. C. M. Pub., VI, 1905, p. 437. Zool. Ser.

#### **STELLER'S SEA-LION.**

1. Adult — P. California. Ward's Nat. Scien. Establ., Rochester, N. Y.

#### Genus 226. **Callotaria. Fur Seal.**

**Callotaria** Palmer, Proc. Biol. Soc. Wash., VII, 1892, p. 156. Type  
*Phoca ursina* Linnæus.

*Callorhinus* Gray, Proc. Zool. Soc., 1859, p. 359. (nec Blanchard, 1850, Entomol.; nec Girard, 1857, Herpetology.)

*Arctocephalus* Gill, Proc. Essex Inst., v, 1866, pp. 7, 11. (nec F. Cuvier.)

*Otoes* Palmer, Proc. Biol. Soc. Wash., XIV, 1901, p. 133. (nec Fischer, 1817.)

#### **796. Callotaria alascana** (Jordan & Clark).

*Callorhinus alascanus* Jord. & Clark, The Fur Seals and Fur Seal Islands, Pt. 3, 1899, p. 2.

*Callotaria ursina* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 357, pl. XL. Zool. Ser. (nec Linnæus.)



FIG. LX. GROUP OF FUR SEALS OR SEA-BEARS.

*Callotaria alascana* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 438. Zool. Ser.

PRIBILOF ISLANDS FUR SEAL.

1. Adult ♂ P. Pribilof Islands. C. H. Gilbert.
2. Adult ♀ P. Pribilof Islands. C. H. Gilbert.
- 3-4. Juv. — P. Pribilof Islands. C. H. Gilbert.
5. Adult ♂ P. St. Paul Island, Alaska. Ward's Nat. Scien. Establ., Rochester, N. Y.
6. Adult ♀ P. St. Paul Island, Alaska. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family II. **Odontobænidae.**

Genus 227. **Odontobænus. Walrus.**

**Odobenus** (sic) Briss., Reg. Anim., 2d ed., 1762, pp. 12, 30. Type  
*Phoca rosmarus* Linnæus.



**797. *Odontobænus rosmarus* (Linnæus).**

*Phoca rosmarus* Linn., Syst. Nat., 1, 1758, p. 38.

*Trichechus rosmarus* Linn., Syst. Nat., 1, 1766, p. 49. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 358. pl. xli. Zoöl. Ser.

*Odontobænus rosmarus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 439. Zoöl. Ser.

**ATLANTIC WALRUS.**

1-2. Adult — Exch. West Coast of Greenland. Am. Mus. Nat. Hist. N. Y. L. S. Dyche.

3-6. Juv. — Exch. West Coast of Greenland. Am. Mus. Nat. Hist. N. Y. L. S. Dyche.

**798. *Odontobænus obesus* (Illiger).**

*Trichechus rosmarus* Shaw, Gen. Zoöl., 1, 1800, p. 234, fig. 68. (Part.)

*Trichechus obesus* Illig., Abhandl. d. Akad. Berl., 1815, pp. 64, 70, 75. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 358. Zoöl. Ser.

*Trichechus divergens* Illig., Abhandl. d. Akad. Berl., 1815, p. 68.

*Rosmarus cookii* Fremery, Bydrag. tot de natuurk. Wetensch., vi, 1831, p. 385.

*Rosmarus arcticus* Pall., Zoog. Rosso-Asiat., 1831, p. 269, pls. xxviii, xxix.

*Odontobænus obesus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 439. Zoöl. Ser.

**PACIFIC WALRUS.**

1. Adult ♂ P. Pacific Ocean. Ward's Nat. Scien. Estab., Rochester, N. Y.

**Family III. *Phocidæ*. Sea Elephants, Seals.****Subfamily I. *Cystophorinæ*.****Genus 228. *Mirounga*. Sea Elephants.**

**Mirounga** Gray, in Griff., Cuvier's Anim. Kingd., v, 1827, p. 179. (Part.) Type *Phoca proboscidea* Péron = *Phoca leonina* Linnæus.

*Macrorhinus* F. Cuv., Dict. Scien. Nat., xxxix, 1826, p. 552. (nec Latreille, 1825, Coleopt.)

*Rhinophoca* Wagl., Nat. Syst. Amph., 1830, p. 27.

*Morunga* Gray, List Spec. Mamm. Brit. Mus., 1843, pp. xxiii, 103. *Id.* Zoöl. Voy. 'Erebus and Terror,' Mamm., 1844, p. 4.

**799. *Mirounga leonina* (Linnaeus).**

*Phoca leonina* Linn., Syst. Nat., 1758, p. 37. Schreb., Säugth., III, 1776, p. 297, pl. LXXXIII A.

*Phoca elephantina* Molina, Sag. Stor. Nat. Chili, 1782, p. 280.

*Phoca proboscidea* Péron & Lesueur, Voy. aux Terres Austr., II, 1816, p. 34. Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 550, pl. G44, fig. 2. *Id.* Mamm., I, 1820, p. 238.

*Phoca resima* Péron & Lesueur, Voy. aux Terres Austr., II, 1816, p. 65.

*Phoca coxii* Desm., Nouv. Dict. Hist. Nat., xxv, 1817, p. 559.

*Phoca ansonii* Blainv., Journ. de Phys., xci, 1820, pp. 299, 300. Desm., Mamm., I, 1820, p. 239.

*Mirounga proboscidea* Gray, Griffith's Anim. Kingd., v, 1827, p. 180.

*Mirounga patagonica* Gray, Griff. Anim. Kingd., v, 1827, p. 180.

*Phoca dubia* Fisch., Syn. Mamm., 1829, p. 235.

*Cystophora proboscidea* Nilss., Arch. f. Naturg., I, 1841, p. 323.

*Morunga elephantina* Gray, Zoöl. Voy. 'Erebus & Terror,' Mamm., 1844, pp. 4, 8, pls. ix, x.

*Morunga proboscidea* Sclat., Proc. Zoöl. Soc., 1868, p. 227.

*Cystophora falklandica* Peters, Monatsb. Akad. Berl., 1875, p. 394.

*Cystophora kerguelensis* Peters, Monatsb. Akad. Berl., 1875, p. 394.

*Macrorhinus leoninus* Allen, N. Am. Pinnipeds, 1880, p. 466.

**SOUTHERN ELEPHANT SEAL.**

1. Juv. ♀ P. Kerguelen Island. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♂ P. Macquarie Islands, Antarctic Region. Tring Museum, England.

**800. *Mirounga angustirostris* (Gill).**

*Macrorhinus angustirostris* Gill, Proc. Chicago Acad. Scien., 1866, p. 33. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 359, pls. XLII, XLIII, XLIV. Zoöl. Ser.

*Mirounga angustirostris* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 545, fig. LXXX, pls. LXIII, LXIV, LXV, LXVI. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 440. Zoöl. Ser.

## ELEPHANT SEAL.

1. Juv. ♀ P. Lower California. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 229. **Phoca. Hair Seals.**

**Phoca** Linn., Syst. Nat., 1, 1758, p. 37. Type *Phoca vitulina* Linnæus.

*Pusa* Scopoli, Intr. Hist. Nat., 1777, p. 490.

*Calocephalus* F. Cuv., Dict. Scien. Nat., xxxix, 1826, p. 544.

*Pagophilus* Gray, Zool. Voy. 'Erebus & Terror,' Mamm., 1844, p. 3.

*Pagomys* Gray, Proc. Zool. Soc., 1864, p. 31.

*Erignathus* Gill, Proc. Essex Inst., v, 1866, pp. 5, 9.

*Haliphilus* Gray, Ann. Mag. Nat. Hist., 4th Ser., xvii, 1866, p. 446.

*Histiophoca* Gill, Amer. Nat., vii, 1873, p. 179.

Subgenus A. **Phoca.**801. **Phoca vitulina** Linnæus.

*Phoca vitulina* Linn., Syst. Nat., 1, 1758, p. 38; 1, 1766, p. 56.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., ii, 1901, p. 363, pl. XLIX. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W.

Indies, F. C. M. Pub., vi, 1905, p. 442. Zool. Ser.

*Phoca variegata* Nilss., Skand. Faun., 1, 1820, p. 359.

*Phoca scopulicola* Thienem., Reis. Nord. Eur., 1, 1824, p. 59, pl. v. (ad. male.)

*Phoca littorea* Thienem., Reis. Nord. Eur., 1, 1824, p. 61, pl. vi, (male); pls. vii, viii, (skulls).

*Phoca pealei* Gill, Proc. Essex Inst., v, 1866, pp. 4, 13.

*Phoca fætida* Bartl., Proc. Zool. Soc., 1868, p. 402. (nec Fabricius.)

## HARBOR SEAL.

1. Adult — P. Gulf of Mexico. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult — P. Coast of Maine. Ward's Nat. Scien. Establ., Rochester, N. Y.

3. Juv. — P. Coast of Newfoundland. Ward's Nat. Scien. Establ., Rochester, N. Y.

802. **Phoca richardi** (Gray).

*Halicyon richardii* Gray, Proc. Zool. Soc., 1864, p. 28, fig. 1.

*Phoca largha* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 363. Zoöl. Ser. (nec Pallas.)

*Phoca richardii* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1902, p. 491. Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 442. Zoöl. Ser.



FIG. LXI. PHOCA RICHARDI. RICHARD'S HARBOR SEAL.

#### RICHARD'S HARBOR SEAL.

1. Adult — Coll. Yakutat Bay, Alaska. D. G. Elliot.

Subgenus B. *Pusa*.

#### 803. *Phoca hispida* Schreber.

*Phoca hispida* Schreb., Säugth., III, 1776, p. 312, pl. LXXXVI.

Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 364.

Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 443. Zoöl. Ser.

*Phoca fætida* Fabr., Müller's Zool. Dan. Prod., 1776, p. VIII.

*Phoca annellata* Nilss., Skand. Faun., I, 1820, p. 362.

*Calocephalus discolor* F. Cuv., Dict. Scien. Nat., xxxix, 1826, p. 554.

*Phoca schreberi* Less., Dict. Class. Hist. Nat., XIII, 1828, p. 414.

*Phoca frederici* Less., Dict. Class. Hist. Nat., XIII, 1828, p. 416.

*Callocephalus dimidiatus* Gray, Cat. Seals & Whales Brit. Mus., 1866, p. 22.

#### RINGED SEAL.

1. Adult — Exch. Coast of Nova Scotia. Am. Mus. Nat. Hist. N. Y. L. S. Dyche.



Subgenus C. *Pagophilus*.**804. *Phoca groenlandica* Fabricius.**

- Phoca groenlandica* Fabr., Müller's Zool. Dan. Prod., 1776, p. VIII.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 364,  
 pl. XLIX. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont.  
 & W. Indies, F. C. M. Pub., VI, 1905, p. 444. Zool. Ser.  
*Phoca oceanica* Lepech., Act. Acad. Scien. Imp. Petrop., I, 1777,  
 p. 295, pls. VII, VIII.  
*Phoca semilunaris* Bodd., Elench. Anim., 1785, p. 170.  
*Phoca albicauda* Desm., Mamm., Suppl., 1822, p. 839.  
*Phoca lagura* G. Cuv., Oss. Foss., v, 1825, p. 206. (juv.)  
*Phoca mulleri* Less., Dict. Class. Hist. Nat., XIII, 1828, p. 413.  
*Phoca desmaresti* Less., Dict. Class. Hist. Nat., XIII, 1828, p. 416.  
*Phoca pilayi* Less., Dict. Class. Hist. Nat., XIII, 1828, p. 416.  
*Phoca dorsata* Pallas, Zöog. Rosso-Asiat., I, 1831, p. 112.  
*Phoca albin* Alex., Mem. Acad. Torino, II, 1850, p. 141, pls. 1-4.  
 (Skeleton.)  
*Phoca annellata* Gaim., Voy. en Islande, Atlas, 1851, pl. XI, fig.  
 9. (nec Nilsson.)

**HARP SEAL.**

1. Adult — Exch. Coast of Labrador. Am. Mus. Nat. Hist. N. Y.  
 L. S. Dyche.
2. Juv. — P. Coast of Newfoundland. Ward's Nat. Scien. Es-  
 tabl., Rochester, N. Y.
3. Adult — P. Kane Basin, Greenland. S. Warmbath.

Order IX. **Insectivora. The Insectivores.**

Family I. **Cynocephalidæ. Flying Lemurs.**

Genus 230. **Cynocephalus.**

**Cynocephalus** Bodd., Dierk. Mengelwerk, II, 1768, p. 8, footnote "1."

Type *Lemur volans* Linnæus.

*Galeopithecus* Pall., Act. Acad. Scien. Imp. Petrop., IV, Pt. 1, 1780, p. 208, tab. 7, 8.

**805. Cynocephalus volans** (Linnæus).

*Lemur volans* Linn., Syst. Nat., I, 1758, p. 30.

*Galeopithecus volans* Pall., Act. Acad. Scien. Imp. Petrop., IV, Pt. 1, 1780, p. 208, tab. 8.

**FLYING LEMUR.**

1. Adult — P. Sumatra. Ward's Nat. Scien. Establ., Rochester, N. Y.

**806. Cynocephalus philippinensis** (Waterhouse).

*Galeopithecus philippinensis* Waterh., Proc. Zool. Soc., 1838, p.

119. Günth., Proc. Zool. Soc., 1879, p. 74.

**PHILIPPINE ISLANDS FLYING LEMUR.**

1. Adult — P. Philippine Islands. Menage Scient. Exped. Bourns & Worcester.

Family II. **Tupaïidæ. Tree Shrews.**

Genus 231. **Tupaia.**

**Tupaia** Raffles, Trans. Linn. Soc. Lond., XIII, 1822, p. 256. Type

*Tupaia ferruginea* Raffles.

*Glisorex* Desm., Mamm., Suppl., II, 1822, p. 535.

*Cladobates* F. Cuv., Dents Mamm., 1825, p. 251.

*Hylogale* Temm., Mon. Mamm., I, 1827, p. XIX.

**807. Tupaia tana** Raffles.

*Tupaia tana* Raffles, Trans. Linn. Soc., XIII, 1822, p. 257. (nec Is. Geoff.)

TREE SHREW.

1. Adult — P. Sumātra.    Ward's Nat. Scien. Establ., Rochester, N. Y.

Family III. **Macroscelididae.**

Genus 232. **Macroscelides.**

**Macroscelides** A. Smith, Zoöl. Jour., IV, 1829, p. 435. Type *Macroscelides typus* Smith = *Sorex proboscideus* Shaw.

*Eumerus* Is. Geoff., Ann. Scien. Nat., Paris, XVIII, 1829, p. 470.

808. **Macroscelides proboscideus** (Shaw).

*Sorex proboscideus* Shaw, Gen. Zoöl., Mamm., I, Pt. II, 1800, p. 536.

*Macroscelides typus* A. Smith, Zoöl. Jour., IV, 1829, p. 435.

ELEPHANT SHREW.

1. Adult ♂ P. Zanzibar, S. E. Africa.    Deyrolle Fils.

809. **Macroscelides revoili** Huet.

*Macroscelides revoili* Huet, Bull. Soc. Philom., 1881, p. 96.

REVOIL'S SHREW.

1. Adult ♂ Coll. Haili, Somaliland, East Africa.    D. G. Elliot.

Genus 233. **Rhynchocyon.**

**Rhynchocyon** Peters, Bericht u. Verh. K. Preuss. Akad. Wiss. Berl., 1847, p. 36. Type *Rhynchocyon cirnei* Peters.

810. **Rhynchocyon petersi** du Bocage.

*Rhynchocyon petersi* du Bocage, Jour. Scien. Lisb., VII, 1880, p. 159. Thos., Proc. Zoöl. Soc., 1890, p. 444.

PETERS'S SHREW.

1. Adult ♂ P. S. E. Africa.    Deyrolle Fils.

Family IV. **Erinaceidae.**

Subfamily I. **Erinaceinae.**    Hedgehogs.

Genus 234. **Erinaceus.**

**Erinaceus** Linn., Syst. Nat., I, 1758, p. 52; I, 1766, p. 75. Type *Erinaceus europæus* Linnæus.

*Atelerix* Pomel, Archiv. Scien. Phys. Nat., Bibl. Univ. Genève, IX, 1848, p. 251.

*Hemiechinus* Fitzin., Sitzungs. Math.-Nat. Cl. K. Akad. Wiss. Wien, LIV, Abth. I, 1866, p. 565.

*Peroëchinus* Fitzin., Sitzungs. Math.-Nat. Cl. K. Akad. Wiss. Wien, LIV, Abth. I, 1866, p. 565.

**811. *Erinaceus europæus* Linnaeus.**

*Erinaceus europæus* Linn., Syst. Nat., I, 1758, p. 52. *Id.* Dobs., Monog. Insect., I, 1882, p. 8, pl. I.

*Erinaceus concolor* Martin, Proc. Zool. Soc., 1837, p. 103.

*Erinaceus dealbatus* Swinh., Proc. Zool. Soc., 1870, p. 450.

**EUROPEAN HEDGEHOG.**

1. Adult — P. England. Ward's Nat. Scien. Establ., Rochester, N. Y.

2. Adult ♂ P. Upsala, Sweden, J. A. Loring.

**812. *Erinaceus sclateri* ? Anderson.**

*Erinaceus sclateri* Ander., Proc. Zool. Soc., 1895, p. 414, fig. 1.

*Erinaceus diadematus* Elliot, Pub. Field Columb. Mus., I, 1897, p. 153. Zool. Ser. (nec Fitzing.)

**DIADEM HEDGEHOG.**

1-2. Adult ♂ Coll. Berbera, Somaliland, East Africa. D. G. Elliot.

**813. *Erinaceus albiventris* Wagner.**

*Erinaceus albiventris* Wagn., Schreb. Säugth., Suppl., II, 1841, p. 22. Dobson, Mon. Insect., Pt. II, 1882, p. 11. Elliot, Pub. Field Columb. Mus., I, 1897, p. 153. Zool. Ser.

**WHITE-BELLIED HEDGEHOG.**

1. Adult ♂ Coll. Toyo Plain, Somaliland, East Africa. D. G. Elliot.

**Family V. *Soricidae*. Shrews.**

**Subfamily I. *Soricinae*.**

**Genus 235. *Sorex*. Common Shrews.**

*Sorex* Linn., Syst. Nat., I, 1758, p. 53; I, 1766, p. 73. Type *Sorex araneus* Linnaeus.

**814. *Sorex personatus* I. Geoffroy.**

*Sorex personatus* I. Geoff., Mém. Mus. Hist. Nat. Paris, xv, 1827,



- p. 122. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 366. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 446. Zoöl. Ser.
- Sorex forsteri* Rich., Zoöl. Jour., III, 1828, p. 516.
- Sorex cooperi* Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 388, pl. xxiv, fig. 7.
- Sorex fimbripes* Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 391, pl. xxiv, fig. 8.
- Amphisorex lesueuri* Duvern., Mag. Zool., Mamm., IV, 1842, p. 33, pl. L.
- Sorex platyrhynchus* Linsley, Sillim. Am. Jour. Scien., XLIII, 1842, p. 346.
- Otisorrex platyrhinus* De Kay, Nat. Hist. N. Y., Zoöl., I, 1842, p. 22, pl. v, fig. 1.
- Sorex haydeni* Baird, N. Am. Mamm., 1857, p. 29.
- Sorex richardsoni* Dobs., Mon. Insect., I, Pt. III, 1890, pl. xxiii, fig. 9. (nec Bachman.)
- Sorex idahoensis* Merr., N. Am. Faun., No. 5, 1891, p. 32.

## MASKED SHREW.

- 1-3. Adult ♂ Exch. Gulquae Lake, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 4-5. Adult ♀ Exch. Gulquae Lake, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 6-7. Adult ♂ Exch. South Twin Lake, Penobscot County, Maine. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 8-9. Adult ♀ Exch. South Twin Lake, Penobscot County, Maine. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 10-18. Adult — P. Red Deer, Alberta, Canada. G. F. Dippie.
- 19-24. Adult ♂ Coll. Lake Edward, Quebec, Canada. T. Surber.
- 25-26. Adult ♂ Coll. Black Mountain, West Virginia. T. Surber.
27. Adult ♂ Coll. Dalhousie, New Brunswick. T. Surber.
28. Adult ♂ Coll. Lake Escarte, Quebec, Canada. T. Surber.
29. Adult ♀ Coll. Minot, North Dakota. W. E. Snyder.
30. Adult ♀ Coll. Bottineau, North Dakota. W. E. Snyder.
31. Adult ♂ P. Gorget, Prince Edward Island, Canada. R. T. Young.
32. Adult ♀ P. Gorget, Prince Edward Island, Canada. R. T. Young.

815. *Sorex fumeus* Miller.

- Sorex platyrhinus* Dobs., Mon. Insect., I, Pt. III, 1890, pl. xxiii, fig. 5. (nec De Kay.)

*Sorex fumeus* Miller, N. Am. Faun., No. 10, 1895, p. 50. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 369. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 447. Zoöl. Ser.

SMOKY SHREW.

1. Adult ♂ Coll. Rivière du Loup, Quebec, Canada. T. Surber.
2. Adult ♀ Coll. Restigouche River, New Brunswick, Canada. T. Surber.
- 3-6. Adult ♀ Coll. Black Mountain, West Virginia. T. Surber.
7. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.

816. *Sorex setosus* Elliot.

*Sorex setosus* Elliot, Pub. Field Columb. Mus., I, 1899, p. 274. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 369. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 448. Zoöl. Ser.

SPINY SHREW.

- 1-2. Adult ♂ Type and paratype. Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.

817. *Sorex vagrans* Baird.

*Sorex vagrans* Baird, N. Am. Mamm., 1857, p. 15, pl. xxvi, fig. 1675. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 370. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 448. Zoöl. Ser.

*Sorex suckleyi* Baird, N. Am. Mamm., 1857, p. 18, pl. xxvii, fig. 1677.

WANDERING SHREW.

- 1-2. Adult ♂ Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
- 3-6. Adult — Coll. Happy Lake, Clallam County, Washington. D. G. Elliot.
- 7-9. Adult ♂ Coll. Johnson's Ranch, Clallam County, Washington. D. G. Elliot.
- 10-12. Adult ♀ Coll. Johnson's Ranch, Clallam County, Washington. D. G. Elliot.
- 13-15. Adult ♀ Coll. Grant's Pass, Oregon. E. Heller.
- 16-20. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
21. Adult ♂ Coll. Mendocino, California. E. Heller.
- 22-24. Adult ♂ Coll. Eureka, California. E. Heller.
- 25-27. Adult ♀ Coll. Eureka, California. E. Heller.
28. Adult ♀ Coll. Requa, California. E. Heller.
29. Adult ♀ Coll. Crescent City, California. E. Heller.

- 30-31. Adult ♂ Coll. Riverton, Oregon. E. Heller.  
 32-37. Adult ♂ Coll. McCoy, Oregon. E. Heller.  
 38. Adult ♀ Coll. McCoy, Oregon. E. Heller.  
 39. Adult ♀ P. Sumas, British Columbia, Canada. C. K. Worthern.

**818. *Sorex obscurus* Merriam.**

*Sorex vagrans similis* Merr., N. Am. Faun., No. 5, 1891, p. 34, pl. iv, fig. 3. (nec Hensel.)

*Sorex obscurus* Merr., N. Am. Faun., No. 10, 1895, p. 72, pl. viii, figs. 1, 1a. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 371. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 449. Zoöl. Ser.

**DUSKY SHREW.**

1. Juv. ♂ P. Pyramid Peak, Eldorado County, California. W. W. Price.
2. Adult ♀ P. Pyramid Peak, Eldorado County, California. W. W. Price.
3. Adult ♀ P. Silver Lake, Amador County, California. W. W. Price.
4. Juv. ♀ P. Silver Lake, Amador County, California. W. W. Price.
5. Adult ♂ P. Cariboo, British Columbia, Canada. C. K. Worthern.
- 6-7. Adult ♀ P. Cariboo, British Columbia, Canada. C. K. Worthern.
8. Adult ♂ P. Sumas, British Columbia, Canada. C. K. Worthern.
9. Adult ♀ P. Sumas, British Columbia, Canada. A. C. Brooks.
- 10-15. Adult ♀ P. Boulder, Colorado. R. T. Young.
- 16-28. Adult ♂ P. Boulder, Colorado. R. T. Young.
- 29-33. Adult ♂ P. Nederland, Colorado. R. T. Young.
34. Adult ♀ P. Nederland, Colorado. R. T. Young.
35. Adult ♀ P. Eldora, Colorado. R. T. Young.

**a. *Sorex obscurus ventralis* Merriam.**

*Sorex obscurus ventralis* Merr., N. Am. Faun., No. 10, 1895, p. 75. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. II, 1904, p. 550, fig. LXXXI. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 450. Zoöl. Ser.

**CHESTNUT-BELLIED SHREW.**

1. Adult ♀ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.





FIG. LXII. *Sorex o. ventralis*. CHESTNUT-BELLIED SHREW.

*a. Sorex glacialis shumaginensis* (Merriam).

*Sorex alascensis shumaginensis* Merr., Proc. Wash. Acad. Scien.,  
II, 1900, p. 18.

*Sorex glacialis shumaginensis* Elliot, Syn. N. Am. Mamm., F. C. M.  
Pub., II, 1901, p. 373. Zoöl. Ser. *Id.* Check-L. Mamm. N.  
Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 451.  
Zoöl. Ser.

POPOF ISLAND SHREW.

1. Adult ♀ Coll. Popof Island, Shumagin Group, Alaska. D. G.  
Elliot.

819. *Sorex trowbridgii* Baird.

*Sorex trowbridgii* Baird, N. Am. Mamm., 1857, p. 13. Elliot,  
Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 373. Zoöl.  
Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C.  
M. Pub., VI, 1905, p. 452. Zoöl. Ser.

TROWBRIDGE'S SHREW.

- 1-5. Adult ♂ Coll. Marshfield, Oregon. E. Heller.
- 6-12. Adult ♀ Coll. Marshfield, Oregon. E. Heller.
- 13. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
- 14. Adult ♀ Coll. Gardiner, Oregon. E. Heller.
- 15-16. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
- 17-18. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
- 19-20. Adult ♂ P. Sumas, British Columbia, Canada. C. K.  
Worthern.

820. *Sorex montereyensis* Merriam.

*Sorex montereyensis* Merr., N. Am. Faun., No. 10, 1895, p. 79.



Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 373, fig. 70. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 452. Zoöl. Ser.

#### MONTEREY SHREW.

- 1-15. Adult ♀ P. Portola, California. W. W. Price.
- 16-21. Adult ♂ P. Portola, California. W. W. Price.
- 22. Adult ♀ P. La Honda, California. W. W. Price.
- 23-24. Adult ♀ P. Mount Hamilton, California. W. W. Price.
- 25-32. Adult ♂ Coll. Point Reyes, California. E. Heller.
- 33-34. Adult ♀ Coll. Point Reyes, California. E. Heller.
- 35. Adult ♂ Coll. Petaluma, California. E. Heller.
- 36-37. Adult ♀ Coll. Petaluma, California. E. Heller.
- 38. Adult ♂ Coll. Eureka, California. E. Heller.
- 39-42. Adult ♀ Coll. Eureka, California. E. Heller.
- 43-44. Adult ♀ Coll. Mendocino, California. E. Heller.
- 45-55. Adult ♂ Coll. Nicasio, California. E. Heller.
- 56-57. Adult ♀ Coll. Nicasio, California. E. Heller.
- 58-60. Adult ♂ Coll. Mount Whitney, California. E. Heller.
- 61-62. Adult ♀ Coll. Mount Whitney, California. E. Heller.

#### 821. *Sorex californicus* Merriam.

*Sorex californicus* Merr., N. Am. Faun., No. 10, 1895, p. 80, pl. XII, figs. 6, 7. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 374. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 452. Zoöl. Ser.

#### CALIFORNIA SHREW.

- 1. Adult ♀ Pres. Palo Alto, California. E. Heller.

#### 822. *Sorex ornatus* Merriam.

*Sorex ornatus* Merr., N. Am. Faun., No. 10, 1895, p. 79, pl. VIII, figs. 3, 3a. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 374. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 452. Zoöl. Ser.

#### ORNAMENTED SHREW.

- 1. Adult ♂ Coll. Fort Tejon, California. E. Heller.
- 2-4. Adult ♀ Coll. Piru Creek, California. E. Heller.
- 5. Adult ♂ Coll. Los Angeles, California. E. Heller.
- 6-7. Adult ♀ Coll. Los Angeles, California. E. Heller.

#### 823. *Sorex pacificus* Coues.

*Sorex pacificus* Coues, Bull. U. S. Geol. & Geog. Surv., III, 1877, p. 650. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 375. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 454. Zoöl. Ser.

## PACIFIC SHREW.

- 1-2. Adult ♂ Coll. Mendocino, California. E. Heller.
3. Adult ♀ Coll. Mendocino, California. E. Heller.
4. Adult ♂ Coll. Crescent City, California. E. Heller.
- 5-10. Adult ♂ Coll. Eureka, California. E. Heller.
- 11-18. Adult ♀ Coll. Eureka, California. E. Heller.
- 19-30. Adult ♂ Coll. Requa, California. E. Heller.
- 31-34. Adult ♀ Coll. Requa, California. E. Heller.
35. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
- 36-40. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
41. Adult ♂ Coll. Marshfield, Oregon. E. Heller.
42. Adult ♀ Coll. Marshfield, Oregon. E. Heller.
43. Adult ♂ Coll. Gardiner, Oregon. E. Heller.
44. Adult ♀ Coll. Gardiner, Oregon. E. Heller.

824. *Sorex orinus* Elliot.

*Sorex orinus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 172.  
 Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 553, fig. 102. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 456. Zool. Ser.

## MOUNTAIN SHREW.

1. Adult ♀ Coll. Type. Aguaje de las Fresas, Lower California, Mexico. E. Heller.
- 2-3. Adult ♂ Coll. San Quentin, Lower California, Mexico. E. Heller.
4. Adult ♀ Coll. San Quentin, Lower California, Mexico. E. Heller.

Genus 236. *Microsorex*. Small Shrews.

*Microsorex* Coues, Notes on Amer. Insect. Mamm., Bull. U. S. Geol. & Geog. Surv., III, 1877, No. 3, p. 646. Type *Sorex hoyi* Baird.

825. *Microsorex hoyi* (Baird).

*Sorex hoyi* Baird, N. Am. Mamm., 1857, p. 32, pl. xxviii.  
*Sorex thompsoni* Baird, N. Am. Mamm., 1857, p. 34.  
*Microsorex hoyi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 377, fig. 71. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 457. Zool. Ser.

## Hoy's SHREW.

1. Adult ♂ P. Allerton, Prince Edward Island, Canada. R. T. Young.

- 2-3. Adult ♂ P. Gorget, Prince Edward Island, Canada. R. T. Young.  
 4. Adult ♀ P. Gorget, Prince Edward Island, Canada. R. T. Young.

Genus 237. **Neosorex. Swimming Shrews.**

**Neosorex** Baird, N. Am. Mamm., 1857, p. 11. Type *Neosorex navigator* Baird.

*a. Neosorex palustris navigator* (Baird).

*Neosorex navigator* Baird, N. Am. Mamm., 1857, p. 11.

*Sorex palustris* Merr., N. Am. Faun., No. 5, 1891, p. 35. (nec Richardson.)

*Neosorex palustris navigator* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 379. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 458. Zool. Ser.

NAVIGATOR SHREW.

1. Adult ♂ P. Boulder, Colorado. R. T. Young.  
 2-3. Adult ♀ P. Boulder, Colorado. R. T. Young.  
 4-5. Adult ♂ P. Nederland, Colorado. R. T. Young.  
 6. Adult ♀ P. Nederland, Colorado. R. T. Young.  
 7-14. Adult ♀ Coll. Whitney Creek, Mt. Whitney, California. E. Heller.  
 15-17. Adult ♂ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.  
 18-19. Adult ♀ Coll. Whitney Meadows, Mt. Whitney, California. E. Heller.

Genus 238. **Atophrax. Anomalous Shrews.**

**Atophrax** Merr., Trans. Linn. Soc. N. Y., 11, 1884, p. 217. Type *Atophrax bendirii* Merriam.

826. **Atophrax bendirii** Merriam.

*Atophrax bendirii* Merr., Trans. Linn. Soc. N. Y., 11, 1884, p. 217. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 381, fig. 73. Zool. Ser. *Id.* Pub. Field Columb. Mus., 111, 1903, p. 195. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 459. Zool. Ser.

*Sorex bendirii palmeri* Merr., N. Am. Faun., No. 10, 1895, p. 97.



*Atophyrax bendirii palmeri* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 381. Zoöl. Ser.

BENDIRE'S SHREW.

1. Adult ♂ Coll. Requa, California. E. Heller.
2. Adult ♀ Coll. Requa, California. E. Heller.
3. Adult ♀ Coll. Marshfield, Oregon. E. Heller.
4. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.
5. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
6. Adult — P. Sumas, British Columbia, Canada. C. K. Worthern.

Genus 239. **Blarina. Short-tailed Shrews.**

**Blarina** Gray, Proc. Zoöl. Soc., 1837, p. 124. Type *Sorex talpoides* Gapper = *Sorex breviceaudus* Say.

*Brachysorex* Duvern., Mag. Zool., 2me Sér., IV, 1842, p. 37, pl. 52.

*Blaria* Gray, List Spec. Mamm. Brit. Mus., 1843, p. XXI.

*Talposorex* Pomel, Archiv. Scien. Phys. & Nat., Bibl. Univ. Genève, IX, 1848, p. 248. (nec Schinz, 1821; nec Lesson, 1827.)

*Cryptotis* Pomel, Archiv. Scien. Phys. & Nat., Bibl. Univ. Genève, IX, 1848, p. 249.

*Galemys* Pomel, Archiv. Scien. Phys. & Nat., Bibl. Univ. Genève, IX, 1848, p. 249. (nec Kaup.)

*Anotus* Wagn., Schreb. Säugth., Suppl., v, 1855, p. 550. (nec Rafinesque, 1815.)

*Soriciscus* Coues, Bull. U. S. Geol. & Geogr. Surv. Terr., 1877, p. 649.

Subgenus A. **Blarina.**

**827. *Blarina breviceauda* (Say).**

*Sorex breviceaudus* Say, Long's Exped. Rocky Mts., I, 1823, p. 164.

*Sorex talpoides* Gapper, Zoöl. Jour., v, 1830, p. 202, pl. VIII.

*Sorex dekayi* Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 377.

*Galemys* (*Brachysorex*) *micrurus* Pomel, Archiv. Scien. Phys. & Nat., Bibl. Univ. Genève, IX, 1848, p. 249.

*Sorex angusticeps* Baird, N. Am. Mamm., 1857, p. 47.

*Blarina costaricensis* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 205. (not from Costa Rica.)

*Blarina breviceauda* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,



1901, p. 382, fig. 74. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 461. Zoöl. Ser.

*Blarina brevicauda talpoides* Bangs, Proc. N. Eng. Zoöl. Club, III, 1902, p. 75.

#### SHORT-TAILED SHREW.

1. Adult ♂ P. Scriba, New York. D. D. Stone.
- 2-3. Adult ♀ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 4-5. Adult ♀ Exch. Fairview, New Jersey. Am. Mus. Nat. Hist. N. Y. Chapman & Granger.
6. Adult ♂ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
7. Adult ♀ Exch. Fort Snelling, Minnesota. Am. Mus. Nat. Hist. N. Y. E. A. Mearns.
- 8-9. Adult ♂ Exch. Weaverville, N. Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
10. Adult ♂ Exch. Tobique Point, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
11. Adult ♂ Exch. Trousers Lake, New Brunswick. Am. Mus. Nat. Hist. N. Y. J. Rowley.
- 12-15. Adult ♂ Coll. Black Mountain, West Virginia. T. Surber.
16. Juv. ♀ Coll. Black Mountain, West Virginia. T. Surber.
17. Adult ♂ P. White Sulphur Springs, West Virginia. T. Surber.
18. Adult ♀ P. White Sulphur Springs, West Virginia. T. Surber.
19. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.
- 20-23. Adult ♀ Pres. White Sulphur Springs, West Virginia. T. Surber.
- 24-26. Adult ♀ Pres. Laporte, Indiana. C. M. Barber.
27. Adult ♂ Pres. Jackson Park, Chicago, Illinois. F. E. Lutz.
- 28-31. Adult ♀ Pres. Jackson Park, Chicago, Illinois. F. E. Lutz.
32. Adult — P. Knoxville, Iowa. G. K. Cherrie.
33. Adult ♂ Coll. Lake Edward, Quebec, Canada. T. Surber.
- 34-36. Adult ♀ Coll. Lake Edward, Quebec, Canada. T. Surber.
37. Adult ♀ Coll. Dalhousie, New Brunswick, Canada. T. Surber.

- 38-39. Adult ♂ Coll. Restigouche River, New Brunswick, Canada. T. Surber.
40. Adult ♀ Coll. Restigouche River, New Brunswick, Canada. T. Surber.
41. Adult ♂ Coll. Metapedia River, Quebec, Canada. T. Surber.
- 42-45. Adult ♂ Coll. Rivière du Loup, Quebec, Canada. T. Surber.
46. Adult ♀ Coll. Rivière du Loup, Quebec, Canada. T. Surber.
47. Adult ♂ Coll. Murray Bay, Quebec, Canada. T. Surber.
48. Adult ♂ P. Hamlington, Minnesota. Ward's Nat. Scien. Establ., Rochester, N. Y.
49. Adult—Pres. Jackson Park, Chicago, Illinois. H. W. Clark.
- a. *Blarina brevicauda carolinensis* (Bachman).  
*Sorex carolinensis* Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 366.  
*Blarina brevicauda carolinensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 383. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 461. Zoöl. Ser.

## CAROLINA SHREW.

1. Adult ♂ Coll. Apex, North Carolina. T. Surber.
2. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.
3. Adult — P. Raleigh, North Carolina. Ward's Nat. Scien. Establ., Rochester, N. Y.
- b. *Blarina brevicauda hylophaga* Elliot.  
*Blarina brevicauda hylophaga* Elliot, Pub. Field Columb. Mus., I, 1899, p. 287. Zoöl. Ser. *Id.* Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 383. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 461. Zoöl. Ser.

## WOOD SHREW.

1. Adult ♂ Type. Coll. Dougherty, Indian Territory. T. Surber.
2. Adult ♀ Paratype. Coll. Dougherty, Indian Territory. T. Surber.

Subgenus B. *Cryptotis*.828. *Blarina parva* (Say).

*Sorex parvus* Say, Long's Exped. Rocky Mts., I, 1823, p. 163.

*Sorex cinereus* Bachm., Jour. Acad. Nat. Scien. Phil., 1837, p. 373, pl. xxiii, fig. 3.

*Blarina exilipes* Baird, N. Am. Mamm., 1857, p. 51.

*Blarina eximius* Baird, N. Am. Mamm., 1857, p. 52.

*Blarina parva* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 384, fig. 75. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 463. Zoöl. Ser.

#### SMALL SHREW.

1. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.
- 2-5. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
6. Adult ♂ P. Warsaw, Illinois. C. K. Worthern.
7. Adult ♀ P. Warsaw, Illinois. C. K. Worthern.

#### 829. *Blarina floridana* Merriam.

*Blarina floridana* Merr., N. Am. Faun., No. 10, 1895, p. 19, pl. 1, fig. 7. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 385. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 463. Zoöl. Ser.

#### FLORIDA SHREW.

1. Adult ♀ Coll. Enterprise, Florida. T. Surber.

#### 830. *Blarina pergracilis* Elliot.

*Blarina pergracilis* Elliot, Pub. Field Columb. Mus., III, 1903, p. 149. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 557, figs. 104, LXXXII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 463. Zoöl. Ser.



FIG. LXIII. *BLARINA PERGRACILIS*. OCOTLAN SLENDER SHREW.

## OCOTLAN SLENDER SHREW.

1. Adult ♂ Type. Coll. Ocotlan, State of Jalisco, Mexico. F. E. Lutz.

Genus 240. **Neomys.**

**Neomys** Kaup, Entw.-Gesch. & Natürl. Syst. Europ. Thierwelt, 1, 1829, p. 117. Type *Sorex daubentonii* Erxleben=*Sorex fodiens* Schreber.

*Crossopus* Wagl., Isis, 1832, p. 275.

*Hydro-Sorex* Duvern., Mém. Mus. Hist. Nat. Strassb., 11, 1835, p. 17.

*Myosictis* Pomel, Cat. Méth. Vert. Foss. Bassin Loire, 1854, p. 14.

831. **Neomys fodiens** (Schreber).

*Sorex fodiens* Schreber, Säugth., III, 1777, p. 571, pl. CLXI.

*Sorex daubentonii* Erxl., Syst. Regn. Anim., 1777, p. 124.

## PALÆARCTIC WATER SHREW.

1. Adult — P. England. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. **Crocidurinae.**Genus 241. **Crocidura.**

**Crocidura** Wagl., Isis, 1832, p. 275. Type *Sorex leucodon* Hermann.

*Suncus* Hempr. & Ehrenb., Symb. Phys., Mamm., 11, 1832, sig. κ.

*Pachyura* Sélys-Longch., Étud. de Micromamm., 1839, pp. 32, 142.

(nec Agassiz, 1829, Pisces.)

*Leucodon* Fatio, Faun. Vertéb. Suisse, Mamm., 1, 1869, pp. 132-

134, 137-139.

Subgenus A. **Crocidura.**832. **Crocidura russulus** (Hermann).

*Sorex araneus* Linn., Syst. Nat., 1, 1758, p. 53; 1, 1766, p. 74.  
(Part.)

*Sorex russulus* Herm., Zimm. Geogr. Gesch., 11, 1780, p. 282.

*Sorex myoides* Blanf., Jour. Asiat. Soc. Beng., XLIV, Pt. 2, 1875, p. 106.

*Crocidura aranea* Blanf., Faun. Brit. Ind., Mamm., 1888-91, p. 243.



## SPIDER SHREW.

1. Adult — P. "Germany." Ward's Nat. Scien. Establ., Rochester, N. Y.

Subgenus B. *Pachyura*.

833. *Crocidura madagascariensis* Coquerel.

*Sorex madagascariensis* Coquer., Ann. Scien. Nat., IX, 1848, p. 193,  
pl. 11, fig. 1.

## MADAGASCAR SHREW.

1. Adult — P. Madagascar. C. I. Forsyth-Major.

Family VI. **Talpidae. Moles.**Subfamily I. **Desmaninæ.**Genus 242. **Desmana.**

**Desmana** Glden., Besch. Berl. Gesell. Naturf. Freunde, III, 1777,  
p. 108. Type *Castor moschatus* Linnæus.

*Mygalus* Retz., Animad. Class. Mamm. Linn., 1796, p. 22.

*Mygale* G. Cuv., Leçons Anat. Comp., I, 1800, tabl. 1.

*Myogalea* Fisch., Syn. Mamm., 1829, p. 250.

*Galemys* Kaup, Entw.-Gesch. Natrl. Syst. Europ. Thierwelt,  
I, 1829, p. 118.

*Caprios* Wagl., Nat. Syst. Amphib., 1830, p. 14.

*Myogale* Brandt, Wieg. Archiv f. Naturgesch., I, 1836, p. 176.

834. *Desmana moschata* (Linnæus).

*Castor moschatus* Linn., Syst. Nat., I, 1758, p. 59; I, 1766, p. 79.

*Sorex moschata* Pall., Act. Acad. Scien. Imp. Petrop., II, 1781,  
p. 315. *Id.* Zoogr. Rosso-Asiat., 1831, p. 1.

## THE DESMAN.

1. Adult — P. Sarepta, South Russia. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 243. **Neurotrichus. Shrew-like Moles.**

**Neurotrichus** Gnther, Proc. Zol. Soc., 1880, p. 441. Type *Urotrichus gibbsii* Baird.

**835. *Neurotrichus gibbsi* (Baird).**

*Urotrichus gibbsii* Baird, N. Am. Mamm., 1857, p. 76.

*Neurotrichus gibbsi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 387, fig. 77. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 466. Zoöl. Ser.

**GIBBS'S SHREW MOLE.**

1. Adult ♂ P. Sumas, British Columbia, Canada. C. K. Worthern.
2. Adult ♀ P. Sumas, British Columbia, Canada. C. K. Worthern.
3. Adult ♂ P. Palo Alto, California. E. Heller.

**a. *Neurotrichus gibbsi major* Merriam.**

*Neurotrichus gibbsi major* Merr., N. Am. Faun., No. 16, 1899, p. 88. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 387. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 467. Zoöl. Ser.

**LARGE SHREW MOLE.**

- 1-4. Adult ♂ Coll. Eureka, California. E. Heller.
- 5-6. Adult ♀ Coll. Eureka, California. E. Heller.
7. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.

**Subfamily II. *Talpinae*.****Genus 244. *Talpa*.**

***Talpa*** Linn., Syst. Nat., I, 1758, p. 52; I, 1766, p. 73. Type *Talpa europæa* Linnæus.

**836. *Talpa europæa* Linnæus.**

*Talpa europæa* Linn., Syst. Nat., I, 1758, p. 52; I, 1766, p. 73.

**EUROPEAN MOLE.**

1. Adult — P. England. Ward's Nat. Scien. Establ., Rochester, N. Y.
- 2-5. Adult ♂ P. Andermatt, Switzerland. J. A. Loring.
- 6-12. Adult ♀ P. Andermatt, Switzerland. J. A. Loring.
- 13-14. Adult ♂ P. Meiringen, Switzerland. J. A. Loring.
15. Adult ♀ P. Meiringen, Switzerland. J. A. Loring.

**Genus 245. *Condylura*. Star-nosed Moles.**

***Condylura*** Illig., Prodr. Syst. Mamm. et Av., 1811, p. 125. Type *Sorex cristatus* Linnæus.

*Astromycter* Harris, Am. Journ. Sci. & Arts, 1X, 1825, p. 400.

*Rhinaster* Wagl., Nat. Syst. Amphib., 1830, p. 14.

*Astromyctes* Gray, List Spec. Mamm. Brit. Mus., 1843, pp. XXI,  
76. (nomen nudum.)

*Astromydes* Blyth, Cat. Mamm. Asiat. Soc. Mus., 1863, p. 87.

### 837. *Condylura cristata* (Linnæus).

*Sorex cristatus* Linn., Syst. Nat., I, 1758, p. 53.

*Talpa longicaudata* Erxl., Syst. Regn. Anim., I, 1777, p. 118.

*Talpa radiata* Shaw, Gen. Zoöl., Mamm., I, 1800, p. 523.

*Condylura macroura* Harl., Faun. Amer., 1825, p. 36.

*Condylura prasinata* Harris, Bost. Jour. Phil. & Arts, 1825, p.  
582.

*Condylura cristata* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
II, 1901, p. 395, fig. 81. Zoöl. Ser. *Id.* Check-L. Mamm. N.  
Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 467.  
Zoöl. Ser.

#### STAR-NOSED MOLE.

1. Adult ♂ P. Lansing, New York. C. K. Worthern.

2. Adult ♀ P. Oswego, New York. D. D. Scott.

3. Adult — P. New York. Ward's Nat. Scien. Establ., Roches-  
ter, N. Y.

### Genus 246. *Scapanus*. Western Moles.

**Scapanus** Pomel, Archiv. Scien. Phys. & Nat., Bibl. Univ. Genève,  
4e Sér., IX, 1848, p. 247. Type, by elimination, *Scalops town-  
sendii* Bachman.

### 838. *Scapanus townsendi* (Bachman).

*Scalops canadensis* Rich., Faun. Bor. Am., Mamm., I, 1829, p. 9.  
(nec Desmarest, nec Harlan.)

*Scalops townsendii* Bachm., Jour. Acad. Nat. Scien. Phil., 1839,  
p. 58.

*Scalops latimanus* Bachm., Bost. Jour. Nat. Hist., 1843, p. 41.

*Scalops metallescens* Cass., Proc. Acad. Nat. Scien. Phil., 1853,  
p. 242.

*Scalops æneus* Cass., Proc. Acad. Nat. Scien. Phil., 1853, p. 299.

*Talpa tæniata* Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p.  
327.

*Scapanus townsendi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,

II, 1901, p. 391, fig. 79. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 468. Zoöl. Ser.

#### TOWNSEND'S MOLE.

- 1-4. Adult ♂ Coll. Crescent City, California. E. Heller.
5. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.
6. Adult — Coll. Hot Springs Trail, Clallam County, Washington. D. G. Elliot.
7. Adult — P. Tacoma, Washington. Ward's Nat. Scien. Establ., Rochester, N. Y.

#### 839. *Scapanus orarius* True.

*Scapanus orarius* True, Proc. U. S. Nat. Mus., XIX, 1896, p. 52. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 392. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 468. Zoöl. Ser.

#### COAST MOLE.

1. Adult ♂ Coll. Crescent City, California. E. Heller.
2. Adult ♀ Coll. Mendocino, California. E. Heller.

#### 840. *Scapanus californicus* (Ayres).

*Scalops californicus* Ayres, Proc. Calif. Acad. Nat. Scien., I, 1855, p. 54.

*Scapanus dilatus* True, Proc. U. S. Nat. Mus., 1894, p. 242.

*Scapanus californicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 392. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 468. Zoöl. Ser.

#### CALIFORNIA MOLE.

1. Adult ♂ Coll. Mendocino, California. E. Heller.
2. Adult ♀ Coll. Mendocino, California. E. Heller.
3. Adult ♂ Coll. Nicasio, California. E. Heller.
4. Adult ♀ Coll. Nicasio, California. E. Heller.
5. Adult ♂ Coll. Stevens Creek, California. E. Heller.

#### Genus 247. *Scalopus*. Common Moles.

*Scalopus* Geoff., Cat. Mamm. Mus. Hist. Nat. Paris, 1803, pp. 77, 78. Type *Scalopus virginianus* Geoffroy = *Sorex aquaticus* Linnæus.

*Scalops* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 126.

#### 841. *Scalopus aquaticus* (Linnæus).

*Sorex aquaticus* Linn., Syst. Nat., I, 1758, p. 53.



*Talpa europæa flavescens* Erxl., Syst. Reg. Anim., 1777, p. 118.

*Talpa europæa flava* Gmel., Syst. Nat., 1, 1788, p. 112.

*Talpa flava* Kerr, Anim. Kingd., 1792, p. 201.

*Talpa fusca* Kerr, Anim. Kingd., 1792, p. 202.

*Talpa cupreata* Rafin., Préc. découv. trav. somiol. Palerme, 1814, p. 14.

*Scalops canadensis* Desm., Mamm., 1820, p. 155.

*Scalops pennsylvanica* Harl., Faun. Amer., 1825, p. 33.

*Talpa pennantii* Le Conte, Proc. Acad. Nat. Scien. Phil., 1853, p. 327.

*Scalops aquaticus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 389, fig. 78. Zoöl. Ser.

*Scalopus aquaticus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 469. Zoöl. Ser.

#### COMMON MOLE.

- 1-2. Adult ♂ Exch. Central Park, New York. Am. Mus. Nat. Hist. N. Y.
3. Adult ♀ Exch. Central Park, New York. Am. Mus. Nat. Hist. N. Y.
4. Adult ♂ Exch. Hastings, New York. Am. Mus. Nat. Hist. N. Y. J. Rowley.
5. Adult ♂ Exch. Weaverville, North Carolina. Am. Mus. Nat. Hist. N. Y. J. S. Cairns.
6. Adult — Pres. Long Island, New York. T. H. Bean.
7. Adult ♂ Coll. Apex, North Carolina. T. Surber.
8. Adult ♂ Coll. Calhoun Falls, South Carolina. T. Surber.
- 9-10. Adult ♂ Coll. Catawba, South Carolina. T. Surber.
11. Adult — P. New York. Ward's Nat. Scien. Establ., Rochester, N. Y.
12. Adult ♂ Pres. Nashville, Tennessee. E. B. Williamson. L. C. Glen.
13. Adult ♀ Pres. Nashville, Tennessee. E. B. Williamson. L. C. Glen.

#### a. *Scalopus aquaticus machrinus* (Rafinesque).

*Talpa machrina* Rafin., Atlantic Journ., 1, 1832, p. 61.

*Talpa sericea* Rafin., Atlantic Journ., 1, 1832, p. 61.

*Scalops argentatus* Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 292.

*Scalops aquaticus machrinus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 389. Zoöl. Ser.

*Scalopus aquaticus machrinus* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 470. Zoöl. Ser.

## LARGE-NOSED MOLE.

- 1-2. Adult ♂ Pres. Greenway, Arkansas. L. Mitchell.  
 3-5. Adult ♀ Pres. Greenway, Arkansas. L. Mitchell.  
 6-7. Juv. — Pres. Greenway, Arkansas. L. Mitchell.  
 8-14. Adult ♂ Pres. Oakwoods Cemetery, Chicago, Illinois. M. Kane.  
 15-16. Adult ♀ Pres. Oakwoods Cemetery, Chicago, Illinois. M. Kane.  
 17. Adult ♂ P. Warsaw, Illinois. C. K. Worthern.  
 18. Adult — Pres. Brookdale, Illinois. P. Glenn.  
 19. Adult ♀ Pres. Jackson Park, Chicago. L. Kenkel.

b. *Scalopus aquaticus intermedius* (Elliot).

- Scalops machrinus intermedius* Elliot, Pub. Field Columb. Mus.,  
 I, 1899, p. 280. Zoöl. Ser.  
*Scalops aquaticus intermedius* Elliot, Syn. N. Am. Mamm., F. C.  
 M. Pub., II, 1901, p. 390. Zoöl. Ser.  
*Scalopus aquaticus intermedius* Elliot, Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 470. Zoöl. Ser.

## INTERMEDIATE MOLE.

- 1-4. Adult ♂ Type and paratypes. Coll. Alva, Oklahoma Territory. T. Surber.  
 5-6. Adult ♀ Paratypes. Coll. Alva, Oklahoma Territory. T. Surber.  
 7. Adult ♂ Coll. Dougherty, Indian Territory. T. Surber.

c. *Scalopus aquaticus australis* (Chapman).

- Scalops aquaticus australis* Chapman, Bull. Am. Mus. Nat. Hist.  
 N. Y., 1893, p. 339. Elliot, Pub. Field Columb. Mus., III,  
 1901, p. 56. Zoöl. Ser.  
*Scalops parvus* Rhoads, Proc. Acad. Nat. Scien. Phil., 1894, p.  
 157.  
*Scalops anastasiæ* Bangs, Proc. Bost. Soc. Nat. Hist., 1898, p. 212.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 391.  
 Zoöl. Ser.  
*Scalops aquaticus parvus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub.,  
 II, 1901, p. 390. Zoöl. Ser.  
*Scalopus aquaticus australis* Elliot, Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 470. Zoöl. Ser.

## FLORIDA MOLE.

1. Adult ♂ Coll. Espanita, Anastasia Island, Florida. T. Surber.  
 2-4. Adult ♀ Coll. Espanita, Anastasia Island, Florida. T. Surber.

5. Adult ♂ Topotype. Coll. Gainesville, Florida. T. Surber.
- 6-8. Adult ♀ Topotypes. Coll. Gainesville, Florida. T. Surber.
- 9-11. Adult ♂ Coll. New Berlin, Florida. T. Surber.
12. Adult ♂ Coll. St. Charles Creek, Florida. T. Surber.
13. Adult ♂ Coll. Enterprise, Florida. T. Surber.
- 14-15. Adult ♀ Coll. Enterprise, Florida. T. Surber.
16. Juv. ♂ Coll. Enterprise, Florida. T. Surber.

*d. Scalopus aquaticus texensis* (Allen).

*Scalops argentatus texanus!* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 221.

*Scalops aquaticus texensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 390. Zoöl. Ser.

\**Scalopus aquaticus texensis* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 471. Zoöl. Ser.

TEXAS MOLE.

1. Adult ♂ Exch. Rockport, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.

Genus 248. **Parascalops. Hairy-tailed Moles.**

**Parascalops** True, Proc. U. S. Nat. Mus., xvii, 1894, p. 242. Type *Scalops breweri* Bachman.

**842. Parascalops breweri** (Bachman).

*Scalops breweri* Bachm., Bost. Jour. Nat. Hist., 1841, p. 32.

*Parascalops breweri* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 394, fig. 80. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 471. Zoöl. Ser.

BREWER'S HAIRY-TAILED MOLE.

1. Adult ♂ P. Lansing, New York. C. K. Worthen.
2. Adult ♀ P. Lansing, New York. C. K. Worthen.
3. Adult ♂ Coll. White Sulphur Springs, West Virginia. T. Surber.
4. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.

\* In the Check-L. Mamm. N. Amer. Cont. etc., the type locality of this species was erroneously given as Aransas County? instead of Presidio Co., Texas.

Family VII. **Solenodontidæ.**Genus 249. **Solenodon. Almiqui & Agouta.**

**Solenodon** Brandt, Mém. Acad. Imp. Scien. St. Pétersb., 6e Sér., II, 1833, p. 459. Type *Solenodon paradoxus* Brandt.

843. **Solenodon cubanus** Peters.

*Solenodon cubanus* Peters, Abh. K. Preuss. Akad. Wiss. Berl., 1863, p. 2, pl. III. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 567, figs. 106, LXXXIV. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 472. Zoöl. Ser.



FIG. LXIV. SOLENODON CUBANUS. ALMIQUI.

## ALMIQUI.

1. Adult ♂ P. Cuba. Ward's Nat. Scien. Establ., Rochester, N. Y

Family VIII. **Tenrecidæ.**Subfamily I. **Tenrecinæ.**Genus 250. **Tenrec.**

**Tenrec** Lacép., Tabl. Mamm., 1799, p. 7. Type *Tenrec ecaudatus* Lacépède = *Erinaceus ecaudatus* Schreber.



*Centetes* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 124.

*Setiger* G. Cuv., Leç. Anat. Comp., 1, 1800, tabl. 1. (nomen nudum.)

**844. *Tenrec ecaudatus* (Schreber).**

*Erinaceus ecaudatus* Schreb., Säugth., III, 1778, p. 584, pl. CLXV.

Gmel., Syst. Nat., 1788, p. 117.

*Centetes ecaudatus* Dobson, Mon. Insect., Pt. 1, 1882, p. 68, pl. VII.

**TAILLESS TENREC.**

1-7. Adult & juv.—Group. P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.

**Genus 251. *Hemicentetes*.**

***Hemicentetes*** Mivart, Proc. Zool. Soc., 1871, p. 58, pl. v. Type

*Erinaceus madagascariensis* Shaw = *Erinaceus semispinosus* Cuvier.

**845. *Hemicentetes semispinosus* (Cuvier).**

*Erinaceus semispinosus* Cuv., Tabl. Élément. Hist. Nat., 1798, p. 108.

*Setiger variegatus* E. Geoff., Cat. Mamm., 1803.

*Hemicentetes madagascariensis* Mivart, Proc. Zool. Soc., 1871, p. 58, fig.

*Ericulus nigricans* Bartl., Proc. Zool. Soc., 1875, p. 64.

*Hemicentetes variegatus* Jentink, Notes Leyd. Mus., 1879, p. 148.

**SMALL-SPINED TENREC.**

1 Adult ♀ P. Madagascar. C. I. Forsyth-Major.

**846. *Hemicentetes nigriceps* Günther.**

*Hemicentetes nigriceps* Günth., Ann. Mag. Nat. Hist., 4th Ser., xvi, 1875, p. 125.

*Hemicentetes variegatus* var. *buffoni* Jentink, Notes Leyd. Mus., 1879, p. 150.

**BLACK-HEADED TENREC.**

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

**Genus 252. *Setifer*.**

***Setifer*** Froriep, in Duméril, Analyt. Zool. aus Franz. mit Zusätzen, 1806, p. 15. Type *Erinaceus setosus* Schreber.

*Ericulus* I. Geoff., Ann. Sci. Nat. Paris, 2me Sér., VIII, 1837, p. 60.

**847. Setifer setosus** (Schreber).

*Erinaceus setosus* Schreb., Säugth., III, 1778, p. 583, pl. CLXIV.

Gmel., Syst. Nat., 1788, p. 117.

*Setiger setosus* Jent., Notes Leyd. Mus., 1879, p. 142.

*Eriulus setosus* Dobson, Mon. Insect., Pt. I, 1882, p. 71.

## SPINY TENREC.

1. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 253. **Microgale.**

**Microgale** Thomas, Jour. Linn. Soc. Lond., Zoöl., xvi, 1882, p. 319. Type *Microgale longicaudata* Thomas.

**848. Microgale cowani** Thomas.

*Microgale cowani* Thos., Jour. Linn. Soc. Lond. Zoöl., xvi, 1882, p. 320. Dobson, Mon. Insect., Pt. II, 1883, p. 86B, pl. VIII, figs. 4, 4e.

## COWAN'S MICROGALE.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.
2. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

*a. Microgale cowani nigrescens* Elliot.

*Microgale cowani nigrescens* Elliot, Proc. Biol. Soc. Wash., xviii, 1905, p. 237.

## FORSYTH-MAJOR'S MICROGALE.

1. Adult — Type. P. Madagascar. C. I. Forsyth-Major.

**849. Microgale dobsoni** Thomas.

*Microgale dobsoni* Thos., Ann. Mag. Nat. Hist., 5th Ser., 1884, p. 337.

## DOBSON'S MICROGALE.

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

**850. Microgale pusillus** Forsyth-Major.

*Microgale pusillus* Forsyth-Major, Ann. Mag. Nat. Hist., 6th Ser., xviii, 1896, p. 462.

## LITTLE MICROGALE.

1. Adult — P. Madagascar. C. I. Forsyth-Major.

Genus 254. **Oryzoryctes.**

**Oryzoryctes!** Grandidier, Rev. Mag. Zool., 2me Sér., xxii, 1870, p. 50. Type *Oryzoryctes! hoia* Grandidier.

**851. *Oryzoryctes hova* Grandidier.**

*Oryzoryctes! hova* Grand., Rev. Mag. Zool., 2me Sér., xxii, 1870,  
p. 50. Dobson, Mon. Insect., Pt. 1, 1882, p. 72.

MADAGASCAR RICE-DIGGER.

1. Adult — P. Madagascar. C. I. Forsyth-Major.

**852. *Oryzoryctes tetradactylus* A. Milne-Edwards & Grandidier.**

*Oryzoryctes! tetradactylus* A. Milne-Edw. & Grand., Le Naturaliste,  
iv, 1882, p. 55.

FOUR-TOED RICE-DIGGER.

1-2. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

3. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

**853. *Oryzoryctes niger* Forsyth-Major.**

*Oryzoryctes niger* F.-Major, Ann. Mag. Nat. Hist., 6th Ser., xviii,  
1896, p. 321.

BLACK RICE-DIGGER.

1. Juv. ♀ P. Madagascar. C. I. Forsyth-Major.

## Order X. **Chiroptera. Bats.**

### Family I. **Pteropodidæ. Fruit Bats.**

#### Subfamily I. **Pteropodinæ.**

#### Genus 255. **Epomophorus.**

**Epomophorus** Bennett, Proc. Zool. Soc., 1835, p. 149. Type *Pteropus epomophorus* Bennett=*Pteropus macrocephalus* Ogilby.

#### Subgenus A. **Epomophorus.**

#### 854. **Epomophorus gambianus** (Ogilby).

*Pteropus gambianus* Ogilby, Proc. Zool. Soc., 1835, p. 100.

*Epomophorus crypturus* Peters, Reis. nach Mossamb., Zool., 1, Sãogeth., 1852, p. 26, pl. v, pl. XIII, figs. 1-6.

#### GAMBIA FRUIT BAT.

1. Adult — P. West Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

#### Genus 256. **Pteropus.**

**Pteropus** Briss., Regn. Anim., 2d ed., 1762, p. 153. Type *Pteropus pteropus* Brisson=*Vespertilio vampyrus* Linnæus. (Part.)

#### 855. **Pteropus edwardsi** Geoffroy.

*Pteropus edwardsii* Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, p. 92.

*Pteropus phaiops* Temm., Mon. Mamm., 1, 1827, p. 178.

#### MILNE-EDWARDS'S FRUIT BAT.

1. Adult — P. "Ceylon." Ward's Nat. Scien. Establ., Rochester, N. Y.

#### 856. **Pteropus celaeno** Hermann.

*Pteropus celaeno* Herm., Obs. Zool., 1, 1804, p. 13.

*Pteropus edulis* E. Geoff., Ann. Mus. Hist. Nat. Paris, 1810, p. 90.

*Pteropus javanicus* Desm., Mamm., 1820, p. 109.

*Pteropus funereus* Temm., Mon. Mamm., 11, 1835-41, p. 63.

*Pteropus pluton* Temm., Esquis. Zool., 1853, p. 56.

#### HARPY FRUIT BAT.

1. Adult — P. "Java." Ward's Nat. Scien. Establ., Rochester, N. Y.



2. Adult — P. "Australia". Ward's Nat. Scien. Establ., Rochester, N. Y.
3. Adult ♂ P. Island of Leyte, Philippines. J. B. Steere.
4. Adult ♀ P. Island of Leyte, Philippines. J. B. Steere.

**857. *Pteropus rubricollis* Geoffroy.**

*Pteropus rubricollis* Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810,  
p. 93.

**MAURITIUS FRUIT BAT.**

1. Adult — P. Mauritius. Ward's Nat. Scien. Establ., Rochester, N. Y.

**858. *Pteropus woodfordi* Thomas.**

*Pteropus woodfordi* Thos., Ann. Mag. Nat. Hist., 6th Ser, 1, 1888,  
p. 156.

**WOODFORD'S FRUIT BAT.**

1. Adult ♂ P. Solomon Islands. E. Gerrard & Sons.

**859. *Pteropus capistratus* Peters.**

*Pteropus capistratus* Peters, Monatsb. K. Preuss. Akad. Wiss.  
Berlin, 1876, p. 316.

**DUKE OF YORK ISLAND FRUIT BAT.**

1. Adult — P. Duke of York Island. Ward's Nat. Scien. Establ., Rochester, N. Y.

**860. *Pteropus poliocephalus* Temminck.**

*Pteropus poliocephalus* Temm., Mon. Mamm., 1, 1827, p. 179.

**AUSTRALIAN FRUIT BAT.**

1. Adult — P. Australia. Ward's Nat. Scien. Establ., Rochester, N. Y.

**861. *Pteropus hypomelanus* Temminck.**

*Pteropus hypomelanus* Temm., Esquis. Zool., 1853, p. 61.

*Pteropus tricolor* Gray, Cat. Monkeys, Lemurs and Fruit-eating  
Bats Brit. Mus., 1870, p. 108.

*Pteropus spectrum* Matschie, Abhandl. Senckenb. Ges., xxv, 1901,  
p. 268, pl. 12.

**TRICOLOR FRUIT BAT.**

- 1-2. Adult ♂ P. Concepcion, Island of Panay, Philippines. J. B. Steere.
- 3-4. Adult ♀ P. Concepcion, Island of Panay, Philippines. J. B. Steere.
5. Adult ♂ P. Guimaras, Island of Panay, Philippines. J. B. Steere.
6. Adult ♀ P. Guimaras, Island of Panay, Philippines. J. B. Steere.

**862. *Pteropus ualanus* Peters.**

*Pteropus ualanus* Peters, Sitzungs. Gesell. Natur. Freund. Berl.,  
1883, p. 1.

CAROLINE ISLANDS FRUIT BAT.

1. Adult ♂ Pres. Caroline Islands. A. G. Maddren.
- 2-4. Adult ♀ Pres. Caroline Islands. A. G. Maddren.

**863. *Pteropus melanopogon* Schlegel.**

*Pteropus phaiops* Temm., Mon. Mamm., II, 1835-41, p. 65.  
(Part.)

*Pteropus melanopogon* Schleg., Peters, Monatsb. K. Preuss.  
Akad. Wiss. Berlin, 1867, p. 330. Dobson, Cat. Chirop. Brit.  
Mus., 1878, p. 44.

SCHLEGEL'S FRUIT BAT.

1. Adult — P. "Duke of York Island" ? Ward's Nat. Scien.  
Establ., Rochester, N. Y.

**864. *Pteropus jubatus* Eschscholtz.**

*Pteropus jubatus* Eschsch., Zool. Atl., IV, 1831, p. 1, pl. 16. Temm.,  
Mon. Mamm., II, 1835-41, p. 51.

*Pteropus pyrocephalus*! Meyen, Nov. Act. Acad. Cæs. Leop.-Carol.  
Nat. Cur., XVI, p. 604.

MANED FRUIT BAT.

1. Adult — P. Singapore, Malacca. Ward's Nat. Scien. Establ.,  
Rochester, N. Y.
2. Adult ♂ P. Concepcion, Island of Panay, Philippines. J. B.  
Steere.
3. Adult ♀ P. Concepcion, Island of Panay, Philippines. J. B.  
Steere.

**865. *Pteropus aurinuchalis* Elliot.**

*Pteropus auri-nuchalis* Elliot, Pub. Field Columb. Mus., I, 1896,  
p. 77, pl. XII. Zool. Ser.

GOLDEN-NAPED FRUIT BAT.

- 1-2. Adult ♂ Type. and paratype. P. Island of Leyte, Philip-  
pines. J. B. Steere.

**866. *Pteropus lucifer* Elliot.**

*Pteropus lucifer* Elliot, Pub. Field Columb. Mus., I, 1896, p. 78,  
pl. XIII. Zool. Ser.

BLACK FRUIT BAT.

- 1-2. Adult ♂ Type and paratype. P. Concepcion, Island of  
Panay, Philippines. J. B. Steere.

Genus 257. **Cynonycteris.**

- Cynonycteris** Peters, Naturw. Reise nach Mossambique, Zool., 1, Säuegeth., 1852, p. 25. Type *Pteropus collaris* Illiger.

**867. Cynonycteris dupreana** (Pollen).

*Pteropus dupreanus* Pollen, Schleg., Proc. Zool. Soc., 1866, p. 419.  
*Cynonycteris dupreana* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1867, p. 866.

## POLLEN'S FRUIT BAT.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

**868. Cynonycteris amplexicaudata** (E. Geoffroy).

*Pteropus amplexicaudatus* E. Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, p. 96.

*Pteropus leschenaultii* Desm., Mamm., 1820, p. 110.

*Pteropus pyrivorus* Hodgs., Jour. Asiat. Soc. Beng., 1835, p. 700.

*Pteropus seminudus* Kelaart, Jour. Asiat. Soc. Beng., 1852, p. 345.

*Cynonycteris amplexicaudata* Peters., Monatsb. K. Preuss. Akad. Wiss. Berl., 1867, p. 865.

*Eleutherura marginata* Gray, Cat. Monkeys, Lemurs and Fruit-eating Bats Brit. Mus., 1870, p. 118.

*Eleutherura infumata* Gray, Cat. Monkeys, Lemurs and Fruit-eating Bats Brit. Mus., 1870, p. 118.

*Eleutherura philippinensis* Gray, Cat. Monkeys, Lemurs and Fruit-eating Bats Brit. Mus., 1870, p. 119.

*Cynonycteris infuscata* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1873, p. 487.

## BIG-TAILED FRUIT BAT.

1-2. Adult — P. Dumaqueta, Philippine Islands. J. B. Steere.

Genus 258. **Cynopterus.**

- Cynopterus** F. Cuv., Dents des Mamm., 1825, p. 248. Type *Pteropus marginatus* Geoffroy = *Vespertilio sphinx* Vahl.

**869. Cynopterus sphinx** (Vahl).

*Vespertilio sphinx* Vahl, Skrivt. af Naturh.-Selsk., iv, Heft 1, 1799, p. 123.

*Pteropus marginatus* E. Geoff., Ann. Mus. Hist. Nat. Paris, xiv, p. 97. Temm., Mon. Mamm., 1, 1827, p. 202.

*Cynopterus marginatus* F. Cuv., Dents des Mamm., 1825, p. 248.

*Pteropus tittheæcheilus* Temm., Mon. Mamm., 1, 1827, p. 198.

*Pachysoma diardii* I. Geoff., Dict. Class. Hist. Nat., xiv, p. 705.

*Pachysoma duvaucelii* I. Geoff., Dict. Class. Hist. Nat., xiv, p. 705.

*Pachysoma brevicaudatum* I. Geoff., Dict. Class. Hist. Nat., xiv, p. 705.

*Pteropus pyrivorus* Hodg., Proc. Zool. Soc., 1836, p. 36.

*Cynopterus horsfieldii* Gray, List Spec. Mamm. Brit. Mus., 1843, p. 38.

*Pachysoma luzoniense* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1861, p. 708.

*Eleutherura marginata* Gray, Proc. Zool. Soc., 1866, p. 64.

#### SPHINX BAT.

1. Adult ♂ P. Tulong River. E. Gerrard & Sons.

2. Adult ♀ P. Tulong River. E. Gerrard & Sons.

3. Adult — P. Balshore. E. Gerrard & Sons.

4. Adult — P. Sarawak, Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

#### Genus 259. *Nyctimene*.

*Nyctimene* Bechstein, in Penn. Allgem. Uebers. vierf. Thiere, 11, 1800, pp. 615, 736. Type *Vespertilio cephalotes* Pallas.

*Cephalotes* Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, pp. 104-106, tab. 7.

*Harpyia* Illig., Prodr. Syst. Mamm. et Avium, 1811, p. 118. (nec Ochsenheimer, 1810, Lepid.)

#### 870. *Nyctimene palliatus* (Geoffroy).

*Pteropus palliatus* Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, p. 99.

*Cephalotes peronii* Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, p. 104, tab. 7.

*Hypoderma moluccensis* Quoy & Gaim., Voy. de l' 'Astrolabe,' 1, 1830-33, p. 86, pl. xi.

*Xantharpyia amplexicaudata* Gray, Voy. 'Sulphur,' Mamm., 1844, p. 30.

#### PERON'S BAT.

1. Adult — P. Moluccas! E. Gerrard & Sons.

#### 871. *Nyctimene cephalotes* (Pallas).

*Vespertilio cephalotes* Pall., Spicil. Zool., III, 1767, p. 10, figs. 1, 2.



*Harpyia pallasii* Temm., Mon. Mamm., II, 1835-41, p. 101, pl. XL, figs. 1-5.

*Harpyia cephalotes* Wagn., Schreb. Säugth., Suppl., I, 1844, p. 370.

*Cynopterus (Uronycteris) albiventer* Gray, Proc. Zool. Soc., 1862, p. 262.

PALLAS'S BAT.

1. Adult — P. Kirwin Island, New Guinea. E. Gerrard & Sons.

Genus 260. **Bdelygma.**

**Bdelygma** Matschie, Flederm. Berl. Mus. Naturk., Lief I, 1899, p. 82. Type *Harpyia major* Dobson.

872. **Bdelygma major** (Dobson).

*Harpyia major* Dobson, Proc. Zool. Soc., 1877, p. 187, figs. 1-3.

*Id.* Cat. Chiropt. Brit. Mus., 1878, p. 89.

HARPY BAT.

1. Adult — P. Duke of York Island. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 261. **Ptenochirus.**

**Ptenochirus** Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, Pt. II, 1861, p. 707. Type *Pachysoma jagorii* Peters.

873. **Ptenochirus lucasii** (Dobson).

*Cynopterus (Ptenochirus) lucasii* Dobson, Ann. Mag. Nat. Hist., 5th Ser., VI, 1880, p. 163.

LUCAS'S BAT.

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily II. **Kiodotinæ.**

Genus 262. **Eonycteris.**

**Eonycteris** Dobson, Jour. Asiat. Soc. Beng., XLII, Pt. II, 1873, p. 204. Type *Macroglossus spekeus* Dobson.

**874. Eonycteris spelæa** (Dobson).

*Macroglossus spelæus* Dobson, Proc. Asiat. Soc. Beng., 1871, p. 106.

*Eonycteris spelæa* Dobson, Jour. Asiat. Soc. Beng., 1873, p. 204, pl. XIV, fig. 10.

## CAVE BAT.

1. Adult — P. Malay Peninsula. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 263. **Melonycteris.**

**Melonycteris** Dobson, Proc. Zoöl. Soc., 1877, p. 119. (June.)

Type *Melonycteris melanops* Dobson.

*Cheiropteruges* Ramsay, Proc. Linn. Soc. N. S. Wales, 11, 1877, p. 17. (July.)

**875. Melonycteris melanops** Dobson.

*Melonycteris melanops* Dobson, Proc. Zoöl. Soc., 1877, p. 119, figs. 4-7. (June.)

*Pteropus* (*Cheiropteruges*) *alboscapulatus* Ramsay, Proc. Linn. Soc. N. S. Wales, 11, 1877, p. 17. (July.)

## BLACK-FACED BAT.

1. Adult — P. Duke of York Island. Ward's Nat. Scien. Establ., Rochester, N. Y.

Family II. **Rhinolophidæ. Nose-leaf Bats.**Subfamily I. **Rhinolophinæ.**Genus 264. **Rhinolophus.**

**Rhinolophus** Lacép., Tabl. Mamm., 1799, p. 15. Type *Vespertilio ferrum-equinum* Schreber.

**876. Rhinolophus pearsoni** Horsfield.

*Rhinolophus pearsonii* Horsf., Cat. Mamm. Mus. E. Ind. Co., 1851, p. 33. Dobson, Mon. Asiat. Chiropt., 1876, p. 43, figs. a. b.

*Rhinolophus larvatus* A. Milne-Edwards, Mamm. Tibet, 1872, p. 248, pls. XXXVII, fig. 1, XXXVII c, fig. 1.



FIG. LXV. RHINOLOPHUS FERRUM-EQUINUM. THE GREAT NOSE-LEAF BAT.

PEARSON'S NOSE-LEAF BAT.

1. Adult — P. India. Ward's Nat. Scien. Establ., Rochester, N. Y.

877. *Rhinolophus luctus* Temminck.

*Rhinolophus luctus* Temm., Mon. Mamm., II, 1835-1841, p. 24, pl. xxx.

*Rhinolophus luctus* var. *rufus* Eyd. & Gerv., Voy. 'Favorite,' Zool., 2me part., 1839.

*Rhinolophus morio* Gray, Ann. Mag. Nat. Hist., 1st. Ser., 1842, p. 257.

*Rhinolophus perniger* Hodgs., Jour. Asiat. Soc. Beng., XII, p. 414.

*Aquias luctus* Gray, Proc. Zool. Soc., 1847, p. 17.

## MOURNING NOSE-LEAF BAT.

1. Adult ♀ P. Kenai-Balu, Borneo. A. Everett. (Alcohol.)

878. *Rhinolophus trifolius* Temminck.

*Rhinolophus trifolius* Temm., Mon. Mamm., II, 1835-1841, p. 27,  
pl. 31.

*Aquias trifolius* Gray, Proc. Zool. Soc., 1847, p. 16.

## TREFOIL NOSE-LEAF BAT.

1. Adult — P. Lawas Mountains, Borneo. E. Gerrard & Sons.

Subfamily II. **Hipposiderinæ.**Genus 265. **Hipposiderus.**

**Hipposideros!** Gray, Zool. Misc., 1831, pp. 37-38. Type *Vesper-tilio speoris* Schneider.

879. *Hipposiderus diadema* (E. Geoffroy).

*Rhinolophus diadema* E. Geoff., Ann. Mus. Hist. Nat. Paris, xx,  
1813, p. 263.

*Rhinolophus nobilis* Horsf., Zool. Research., 1822.

*Rhinolophus griseus* Meyen, Nov. Act. Acad. Cæs. Leop.-Carol.,  
xvi, Pt. 2, p. 608.

*Hipposideros! lankadiva* Kelaart, Prodr. Faun. Zeyl., 1852-54,  
p. 15.

## CROWNED BAT.

- 1-2. Adult — P. Guimaras, Philippine Islands. J. B. Steere.  
3. Adult — P. Sarawak, Borneo. E. Gerrard & Sons.

880. *Hipposiderus cyclops* (Temminck).

*Phyllorhina cyclops* Temm., Esquiss. Zool. Guinée, 1853, p. 75.

## CYCLOPS BAT.

1. Adult ♀ P. Benito River, West Africa. G. L. Bates.

881. *Hipposiderus bicolor* (Temminck).

*Rhinolophus bicolor* Temm., Mon. Mamm., II, 1835-1841, p.  
18.

*Phyllorhina antricola* Peters, Monatsb. K. Preuss. Akad. Wiss.  
Berl., 1861, p. 709.

## BICOLORED BAT.

1. Adult — P. Palkai-Hügel. E. Hartert.



Family III. **Nycteridæ.**Subfamily I. **Megaderminæ.**Genus 266. **Megaderma.**

**Megaderma** Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, pp. 187-190, 197-198. Type *Vespertilio spasma* Linnæus.

882. **Megaderma gigas** Dobson.

*Megaderma gigas* Dobson, Proc. Zool. Soc., 1880, p. 461, pl. XLVI.

## GREAT VAMPIRE BAT.

1. Adult — P. Australia. E. Gerrard & Sons.

Subfamily II. **Nycterinæ.**Genus 267. **Nycteris.**

**Nycteris** Cuv. & Geoff., Méth. Mamm., in Mag. Encyclop., II, 1795, p. 186. Type *Vespertilio hispidus* Schreber.

*Nicteris!* Desm., Nouv. Dict. Hist. Nat., xv, 1803, p. 501.

*Nycterus!* Fisch., Zoogn., 1813, p. 18.

883. **Nycteris hispida** (Schreber).

*Vespertilio hispidus* Schreb., Säugth., I, 1775, p. 169, pl. LVI.

*Nycteris daubentonii* E. Geoff., Desc. Égypte, \*1818, p. 113.

*Rhinolophus martini* Fraser, Proc. Zool. Soc., 1843, p. 25.

*Nycterops pilosa* Gray, Proc. Zool. Soc., 1866, p. 83.

*Nycteris hispida* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1870, pl. figs. 1, 2.

## HISPID VAMPIRE BAT.

1. Adult ♂ P. Upper Shire River, Brit. Central Africa. P. Rendall.

Family IV. **Vespertilionidæ. Common Bats.**Subfamily I. **Vespertilioninæ.**Genus 268. **Myotis.**

**Myotis** Kaup, Skizzirte Entw.-Gesch. u. Natürl. Syst. Europ. Thierw., I, 1829, p. 106. Type *Vespertilio murinus* Schreber = *Vespertilio myotis* Bechstein.

\*See Sherborn, Proc. Zool. Soc., 1897, p. 285.

- Nystactes* Kaup, Skizzirte Entw.-Gesch. u. Natürl. Syst. Europ. Thierw., I, 1829, pp. 106, 108-109.  
*Vespertilio* Keyserl. & Blas., Wiegman. Archiv f. Naturg., 1839, p. 306. (nec Linn.)  
*Selysius* Bonap., Iconog. Faun. Ital., I, 1841, Intr. p. 3.  
*Brachyotus* Kolen., Allgem. Deutsch. Naturh. Zeit. Dresden, neue Folge, II, 1856, pp. 131, 174-177.  
*Isotus* Kolen., Allgem. Deutsch. Naturh. Zeit. Dresden, neue Folge, II, 1856, pp. 131, 177-179.  
*Aeorestes* Fitzinger, Sitzungsber. Math.-Nat. Cl. K. Akad. Wiss. Wien, LXII, 1870; Abth. I, p. 427.  
*Comastes* Fitzinger, Sitzungsber. Math.-Nat. Cl. K. Akad. Wiss. Wien, LXII, 1870, Abth. I, p. 565.

**884. *Myotis velifer* (J. A. Allen).**

- Vespertilio velifer* J. A. Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 177.  
*Myotis velifer* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 401. Zool. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 573. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 473. Zool. Ser.

**LARGE-WINGED BAT.**

- 1-4. Adult ♂ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz.  
 5-9. Adult ♀ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz.  
 10-17. Adult — Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz.  
 18-36. Adult ♂ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz. (Alcohol.)  
 37-77. Adult ♀ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz. (Alcohol.)  
 78-79. Adult ♂ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.  
 80-82. Adult ♀ Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz.  
 83-87. Adult ♂ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)  
 88-93. Adult ♀ Coll. Xuchil, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)  
 94-104. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber. (Alcohol.)

105-116. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber. (Alcohol.)

117-118. Adult ♂ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber. (Alcohol.)

**885. *Myotis evotis* (H. Allen).**

*Vespertilio evotis* H. Allen, Mon. N. Am. Bats, 1864, p. 48.

*Myotis evotis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 406. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 574. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 474. Zoöl. Ser.

**PROMINENT-EARED BAT.**

1. Adult ♂ P. Huchuca Mountains, Arizona. W. W. Price.

2. Adult ♀ P. Huchuca Mountains, Arizona. W. W. Price.

3. Adult ♂ Coll. Mount Whitney, California. E. Heller.

**886. *Myotis milleri* Elliot.**

*Myotis milleri* Elliot, Pub. Field Columb. Mus., III, 1903, p. 172. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 575. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 474. Zoöl. Ser.

**MILLER'S BAT.**

1-2. Adult ♂ Type and paratype. Coll. La Grulla, Lower California, Mexico. E. Heller.

**887. *Myotis nigricans* (Maximilian).**

*Vespertilio nigricans* Max., Beitr. Natur. Bras., II, 1826, p. 266.

*Vespertilio concinnus* H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 280.

*Myotis nigricans* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 575. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 475. Zoöl. Ser.

**GRIZZLED BROWN BAT.**

1. Adult — P. ———? E. Gerrard & Sons.

**888. *Myotis yumanensis* (H. Allen).**

*Vespertilio yumanensis* H. Allen, Mon. N. Amer. Bats, 1864, p. 58.

*Myotis yumanensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 403. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 576. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 475. Zoöl. Ser.

## FORT YUMA BAT.

1. Adult ♀ Coll. Fort Tejon, California. E. Heller.
2. Adult ♀ Coll. Argus Mountains, California. E. Heller.

a. *Myotis yumanensis saturatus* Miller.

*Myotis yumanensis saturatus* Miller, N. Am. Faun., No. 13, 1897, p. 68. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 403. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 577. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 475. Zoöl. Ser.

## DARK YUMA BAT.

1. Adult — Coll. Boulder Lake, Clallam County, Washington. D. G. Elliot.
2. Adult — P. Chiliwack, British Columbia, Canada. C. K. Worthern.

889. *Myotis orinomus* Elliot.

*Myotis orinomus* Elliot, Pub. Field Columb. Mus., III, 1903, p. 228. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 577. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 476. Zoöl. Ser.

## LA GRULLA BROWN BAT.

- 1-2. Adult ♂ Type and paratype. Coll. La Grulla, Lower California, Mexico. E. Heller.
3. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.

890. *Myotis californicus* (Audubon & Bachman).

*Vespertilio californicus* Aud. & Bachm., Jour. Acad. Nat. Scien. Phil., 1842, p. 285.

*Vespertilio nitidus* H. Allen, Proc. Acad. Nat. Scien. Phil., 1862, p. 247.

*Vespertilio oregonensis* H. Allen, Mon. N. Am. Bats, 1864, p. 61.

*Vespertilio obscurus* H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 281.

*Vespertilio volans* H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 282.

*Vespertilio exilis* H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 283.

*Vespertilio tenuidorsalis* H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 283.

*Vespertilio yumanensis* H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 283. (nec H. Allen, 1864.)



*Vespertilio melanorhinus* Merr., N. Am. Faun., No. 3, 1890, p. 46.

*Vespertilio nitidus henshawi* H. Allen, Mon. N. Am. Bats, 1894, p. 103.

*Vespertilio nigricans* H. Allen, Mon. N. Am. Bats, 1894, p. 97. (nec Max., 1826.)

*Myotis californicus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 403. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 578. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 476. Zoöl. Ser.

#### LITTLE CALIFORNIA BAT.

1. Adult ♂ P. White Mountains, Arizona. W. W. Price.
2. Adult ♂ P. S-B. Ranch, Arizona. W. W. Price.
3. Adult ♀ P. Chiricahua Mountains, Arizona. W. W. Price.
4. Adult ♀ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
5. Adult ♂ Coll. Mount Whitney, California. E. Heller.
- 6-9. Adult ♀ Coll. Mount Whitney, California. E. Heller.
- 10-11. Adult ♂ Coll. Fort Tejon, California. E. Heller.
12. Adult ♀ Coll. Fort Tejon, California. E. Heller.

#### a. *Myotis californicus caurinus* Miller.

*Myotis californicus caurinus* Miller, N. Am. Faun., No. 13, 1897, p. 72. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 404. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 477. Zoöl. Ser.

#### GRAHAM ISLAND BAT.

1. Adult ♂ P. Sumas, British Columbia, Canada. C. K. Worthern.

#### b. *Myotis californicus pallidus* Stephens.

*Myotis californicus pallidus* Steph., Proc. Biol. Soc. Wash., XIII, 1900, p. 153. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 405. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 579. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 477. Zoöl. Ser.

#### PALE BAT.

1. Adult ♂ Coll. Panamint Mts., Inyo County, California. E. Heller.
- 2-4. Adult ♀ Coll. Panamint Mts., Inyo County, California. E. Heller.
5. Adult ♂ Coll. Mesquite Valley, California. E. Heller.
6. Adult ♀ Coll. Mesquite Valley, California. E. Heller.

**891. *Myotis subulatus* (Say).**

*Vespertilio subulatus* Say, in Long's Exped. Rocky Mts., II, 1823, p. 65.

*Vespertilio gryphus* var. (b) H. Allen, Mon. N. Am. Bats, 1894, p. 80.

*Vespertilio gryphus* var. *septentrionalis* Trouess., Cat. Mamm. t. Viv. q. Foss., 1897, p. 131.

*Myotis subulatus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 405. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 580. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 478. Zoöl. Ser.

**SMALL-WINGED BAT.**

1. Adult — Pres. Mitchell, Indiana. S. E. Meek.

2-15. Adult ♂ Pres. Wyandotte Cave, Indiana. H. A. Rothrock.

16-42. Adult ♀ Pres. Wyandotte Cave, Indiana. H. A. Rothrock.

43. Adult ♀ Exch. Elmsford, New York. Am. Mus. Nat. Hist. N. Y. J. H. Healy.

44. Adult — P. Minnesota. Ward's Nat. Scien. Establ., Rochester, N. Y.

**892. *Myotis lucifugus* (Le Conte).**

*Vespertilio lucifugus* Le Conte, McMurtrie, Cuv. Anim. Kingd., I, 1831, App., p. 431.

*Vespertilio affinis* H. Allen, Mon. N. Am. Bats, 1864, p. 53.

*Vespertilio carolinii* Dobson, Cat. Chirop. Brit. Mus., 1878, p. 325.

*Vespertilio lucifugus austroriparius* Rhoads, Proc. Acad. Nat. Scien. Phil., 1897, p. 227.

*Myotis lucifugus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 402, fig. 84. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 580. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 478. Zoöl. Ser.

**LITTLE BROWN BAT.**

1-7. Adult ♀ P. White Sulphur Springs, West Virginia. T. Surber.

8-11. Adult ♂ P. Waterloo County, Ontario, Canada. G. F. Dippie.

12-13. Adult — Pres. Greenway, Arkansas. L. Mitchell.

**a. *Myotis lucifugus longicrus* (True).**

*Vespertilio longicrus* True, Science, VIII, 1886, p. 588.

*Vespertilio albescens* H. Allen, Mon. N. Am. Bats, 1894, p. 92.  
(nec Geoffroy.)

*Myotis lucifugus longicrus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 402. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., 14, Pt. 11, 1904, p. 581. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., 16, 1905, p. 479. Zoöl. Ser.

#### TRUE'S BAT.

1. Adult ♂ Coll. Inyo Mountains, California. E. Heller.
2. Adult ♀ Coll. Inyo Mountains, California. E. Heller.

#### 893. *Myotis thysanodes* Miller.

*Vespertilio albescens evotis* H. Allen, Mon. N. Am. Bats, 1894, p. 90. (nec H. Allen, 1864.)

*Vespertilio albescens velifer* H. Allen, Mon. N. Am. Bats, 1894, p. 93. (nec J. Allen, 1890.)

*Myotis thysanodes* Miller, N. Am. Faun., No. 13, 1897, p. 80. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., 14, Pt. 11, 1904, p. 572. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., 16, 1905, p. 479. Zoöl. Ser.

*Myotis evotis thysanodes* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 406. Zoöl. Ser.

#### FRINGED BAT.

- 1-2. Adult ♂ Coll. Patzcuaro, State of Michoacan, Mexico. S. E. Meek. (Alcohol.)
3. Adult ♀ Coll. Patzcuaro, State of Michoacan, Mexico. S. E. Meek. (Alcohol.)

#### Genus 269. *Lasionycteris*.

***Lasionycteris*** Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1865, p. 648. Type *Vespertilio noctivagans* Le Conte.

*Scotophilus* H. Allen, Mon. N. Am. Bats, 1864, p. 27. (Part., nec Leach.)

*Cnephaiophilus* Fitzinger, Sitzungsb. K. Akad. Wiss. Wien, LXII, 1870, Abth. 1, p. 8.

*Vesperides* Coues, in Coues & Yarrow, Zoöl. Wheeler's Exped., 1875, p. 83.

*Vesperugo* Dobson, Cat. Chiropt. Brit. Mus., 1878, p. 183. (Part.)

#### 894. *Lasionycteris noctivagans* (Le Conte).

*Vespertilio noctivagans* Le Conte, McMurtrie, Cuv. Anim. Kingd., Am. ed., 1, 1831, p. 31.

*Vespertilio auduboni* Harl., Am. Month. Jour. Geol. & Nat. Hist., 1831, p. 220, pl. II.

*Vespertilio pulverulentus* Temm., Mon. Mamm., II, 1835-1841, p. 325.

*Lasionycteris noctivagans* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 407, fig. 85. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 480. Zoöl. Ser.

#### NIGHT-WANDERING BAT.

1. Adult ♂ Pres. Jackson Park, Chicago, Illinois. E. B. Chope.

2-4. Adult ♀ Pres. Jackson Park, Chicago, Illinois. Chope & Kenkel.

5. Adult ♂ Pres. Oakwoods Cemetery, Chicago, Illinois. L. V. Kenkel.

6. Adult ♂ Pres. Glen Ellyn, Illinois. A. B. Wolcott.

7. Adult ♀ Coll. Minot, South Dakota. W. E. Snyder.

8. Adult — P. Red Deer River, Alberta, Canada. G. F. Dippie.

9. Adult ♂ P. Chiricahua Mts., Arizona. W. W. Price.

10. Adult ♀ P. Chiricahua Mts., Arizona. W. W. Price.

#### Genus 270. **Pipistrellus.**

**Pipistrellus** Kaup, Skizzirte Entwick.-Gesch. u. Natürl. Syst. d. Europ. Thierw., Th. I, 1829, pp. 97, 98. Type *Vespertilio pipistrellus* Schreber.

*Vesperugo* Keyserl. & Blas., Wieg. Archiv f. Naturg., 5ter Jahrg., Bd. I, 1839, p. 312. (Part.)

*Hypsugo* Kolenati, Allgem. Deutsch. Naturh. Zeit. Dresden, neue Folge, II, 1856, pp. 131, 167-169.

*Nannugo* Kolenati, Allgem. Deutsch. Naturh. Zeit. Dresden, neue Folge, II, 1856, pp. 131, 169-172.

*Scotophilus* H. Allen, Mon. N. Am. Bats, 1864, p. 27. (Part., nec Leach.)

#### 895. **Pipistrellus hesperus** (H. Allen).

*Scotophilus hesperus* H. Allen, Mon. N. Am. Bats, 1864, p. 43.

*Vesperugo merriami* Dobson, Cat. Chiropt. Brit. Mus., 1878, p. 228.

*Pipistrellus hesperus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 409, fig. 86. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 582, figs. 108,



LXXXVI. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 480. Zool. Ser.

## WESTERN BAT.

1. Adult ♀ P. Dulzura, California. L. A. Marsh.
2. Adult ♂ P. Chiricahua Mountains, Arizona. W. W. Price.
- 3-4. Adult ♂ Coll. San Felipe, Lower California, Mexico. E. Heller.
5. Adult ♂ Coll. San Matias Spring, Lower California, Mexico. E. Heller.
- 6-7. Adult ♀ Coll. Rosarito, Lower California, Mexico. E. Heller.
- 8-9. Adult ♂ Coll. Parral, Lower California, Mexico. E. Heller.
10. Adult ♀ Coll. Parral, Lower California, Mexico. E. Heller.
- 11-12. Adult ♀ Coll. Santa Rosa, Lower California, Mexico. E. Heller.
13. Adult ♂ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 14-15. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
16. Adult ♂ Coll. Daggett, California. E. Heller.
17. Adult ♂ Coll. Wild Rose Spring, Panamint Mts., California. E. Heller.
- 18-19. Adult ♀ Coll. Wild Rose Spring, Panamint Mts., California. E. Heller.
20. Adult ♀ Coll. Oro Grande, California. E. Heller.
- 21-22. Adult ♂ Coll. Palm Springs, California. E. Heller.
23. Adult ♀ Coll. Lone Pine, California. E. Heller.
24. Adult ♂ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
25. Adult ♀ Coll. Beveridge Cañon, Inyo Mts., California. E. Heller.
26. Adult ♂ Coll. Fort Tejon, California. E. Heller.
27. Adult ♀ Coll. Fort Tejon, California. E. Heller.
28. Adult — P. California! Ward's Nat. Scien. Establ., Rochester, N. Y.
- 29-30. Adult ♂ Coll. Argus Mountains, California. E. Heller. (Alcohol.)
31. Adult ♀ Coll. Argus Mountains, California. E. Heller. (Alcohol.)

32. Adult ♂ Coll. Lone Pine, Inyo County, California. E. Heller. (Alcohol.)
- 33-35. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller. (Alcohol.)
- 36-37. Adult ♂ Coll. Keeler, Inyo County, California. E. Heller. (Alcohol.)
38. Adult ♀ Coll. Old Woman's Spring, California. E. Heller. (Alcohol.)
39. Adult ♂ Coll. Old Woman's Spring, California. E. Heller. (Alcohol.)
40. Adult ♀ Coll. Bailey's Ranch, California. E. Heller. (Alcohol.)
- 41-42. Adult ♂ Coll. Bailey's Ranch, California. E. Heller. (Alcohol.)
- 43-47. Adult ♂ Coll. Fort Tejon, California. E. Heller. (Alcohol.)
48. Adult ♀ Coll. Fort Tejon, California. E. Heller. (Alcohol.)

*a. Pipistrellus hesperus apus* Elliot.

*Pipistrellus hesperus apus* Elliot, Pub. Field Columb. Mus., III, 1904, p. 269. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 583. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 481. Zoöl. Ser.

SWIFT BAT.

- 1-3. Adult ♂ Type and paratypes. P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
4. Adult ♀ Paratype. P. Providentia Mines, State of Sonora, Mexico. J. Rowley.

**896. *Pipistrellus subflavus* (F. Cuvier).**

*Vespertilio subflavus* F. Cuv., Nouv. Ann. Mus. Hist. Nat. Paris, 1832, p. 17.

*Vespertilio erythrodactylus* Temm., Mon. Mamm., II, 1835-41, p. 238.

*Vesperugo carolinensis* H. Allen, Mon. N. Am. Bats, 1894, p. 121. (nec Geoffroy.)

*Pipistrellus subflavus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 409. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 481. Zoöl. Ser.

YELLOWISH-BROWN BAT.

1. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.

Genus 271. **Vespertilio.**

- Vespertilio** Linn., Syst. Nat., 1, 1758, p. 31; 1, 1766, p. 46. Type  
*Vespertilio murinus* Linnæus. (nec Schreber.)  
*Eptesicus* Rafin., Ann. Nat., 1, 1820, p. 2.  
*Cnephæus* Kaup, Skizzirte Entw.-Gesch. u. Natürl. Syst. Europ.  
 Thierw., 1, 1829, p. 103.  
*Noctula* Bonap., Iconog. Faun. Ital., 1, 1837, fasc. xxi.  
*Vesperugo* Keyserl. & Blas., Wieg. Archiv f. Naturg., Bd. 1,  
 1839, p. 312. (Part.)  
*Vesperus* Keyserl. & Blas., Wieg. Archiv f. Naturg., Bd. 1,  
 1839, p. 313.  
*Cateorus* Kolenati, Allgem. Deutsch. Naturh. Zeit. Dresden, neue  
 Folge, II, 1856, pp. 131, 162-163.  
*Meteorus* Kolenati, Allgem. Deutsch. Naturh. Zeit. Dresden, neue  
 Folge, II, 1856, pp. 131, 163-167.  
*Marsipolæmus* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl.,  
 1872, p. 260.  
*Adeloncycteris* H. Allen, Proc. Acad. Nat. Scien. Phil., 1892, p. 466.

Subgenus A. **Vespertilio.**

**897. Vespertilio fuscus** Beauvois.

- Vespertilio fuscus* Beauv., Cat. Peale's Mus. Phil., 1796, p. 14.  
 Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 410,  
 fig. 87. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies,  
 F. C. M. Pub., IV, Pt. II, 1904, p. 587, figs. 109, LXXXVII.  
 Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. In-  
 dies, F. C. M. Pub., VI, 1905, p. 482. Zoöl. Ser.  
*Vespertilio carolinensis* Geoff., Ann. Mus. Hist. Nat. Paris, VIII,  
 1806, p. 193.  
*Vespertilio phaiops* Rafin., Am. Month. Mag., III, 1818, p. 445.  
*Eptesicus melanops* Rafin., Ann. Nat., 1820, p. 2.  
*Vespertilio arquatus* Say, Long's Exped. Rocky Mts., 1, 1823, p.  
 167. (note.)  
*Vespertilio ursinus* Temm., Mon. Mamm., II, 1835-41, p. 235.  
*Scotophilus greenii* Gray, List Spec. Mamm. Brit. Mus., 1, 1843,  
 p. 30.

**BROWN BAT.**

- 1-3. Adult ♂ P. White Mountains, Arizona. W. W. Price.  
 4. Adult ♀ P. White Mountains, Arizona. W. W. Price.  
 5-10. Adult ♂ P. Chiricahua Mountains, Arizona. W. W.  
 Price.



FIG. LXVI. VESPERTILIO FUSCUS. BROWN BAT.

- 11-20. Adult ♀ P. Chiricahua Mountains, Arizona. W. W. Price.
21. Adult — Pres. Greenway, Arkansas. L. Mitchell.
- 22-25. Adult ♂ P. Waterloo County, Ontario. G. F. Dippie.
26. Adult ♀ P. Waterloo County, Ontario. G. F. Dippie.
27. Adult ♀ Exch. Hickman County, Kentucky. Am. Mus. Nat. Hist. N. Y. H. H. & C. S. Brimley.
28. Adult ♂ P. Billings, Montana. E. T. Seton.
29. Adult ♂ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
- 30-31. Adult ♀ P. Providentia Mines, State of Sonora, Mexico. J. Rowley.
- 32-36. Adult ♀ Coll. White Sulphur Springs, West Virginia. T. Surber.
37. Adult ♀ Coll. Job Knob Mountain, West Virginia. T. Surber.
- 38-45. Adult ♂ Coll. Mount Whitney, California. E. Heller.
- 46-54. Adult ♀ Coll. Mount Whitney, California. E. Heller.
- 55-60. Adult ♀ Coll. Fort Tejon, California. E. Heller.
61. Adult ♂ Coll. Hot Springs, Panamint Mts., California. E. Heller. (Alcohol.)
62. Adult ♂ Coll. Fort Tejon, California. E. Heller. (Alcohol.)
- 63-66. Adult ♀ Coll. Fort Tejon, California. E. Heller. (Alcohol.)



a. *Vespertilio fuscus bernardinus* (Rhoads).

*Eptesicus fuscus bernardinus* Rhoads, Proc. Acad. Nat. Scien. Phil., 1901, p. 619.

*Vespertilio fuscus bernardinus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 589. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 483. Zoöl. Ser.

SAN BERNARDINO BROWN BAT.

1. Adult ♂ Coll. La Grulla, Lower California, Mexico. E. Heller.
- 2-3. Adult ♀ Coll. Santa Eulalia, Lower California, Mexico. E. Heller.
- 4-5. Adult ♂ Coll. Parral, Lower California, Mexico. E. Heller.
- 6-13. Adult ♀ Coll. Parral, Lower California, Mexico. E. Heller.

b. *Vespertilio fuscus miradorensis* (H. Allen).

*Scotophilus miradorensis* H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 287.

*Vespertilio fuscus miradorensis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 588. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 484. Zoöl. Ser.

MIRADOR BROWN BAT.

1. Adult ♂ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.
- 2-3. Adult ♀ Coll. Coyotes, State of Durango, Mexico. Heller & Barber.

c. *Vespertilio fuscus peninsulæ* Thomas.

*Vespertilio fuscus peninsulæ* Thos., Ann. Mag. Nat. Hist., 7th Ser., I, 1898, p. 43. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 589. Zoöl. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 484. Zoöl. Ser.

LOWER CALIFORNIA BROWN BAT.

1. Adult ♂ Coll. Parral, San Pedro Martir Mountains, Lower California, Mexico. E. Heller.

d. *Vespertilio fuscus propinquus* (Peters).

*Vesperus propinquus* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1872, p. 262.

*Vespertilio fuscus propinquus* Elliot, Mamm. Middle Amer. & W.

Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 589. Zoöl. Ser. *Id.*  
Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,  
VI, 1905, p. 484. Zoöl. Ser.

ALLIED BROWN BAT.

1. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller  
& Barber.

898. *Vespertilio minutus* Temminck.

*Vespertilio minuta* Temm., Monog. Mamm., II, 1835-41, p. 209.  
*Scotophilus minutus* Tomes, Proc. Zoöl. Soc., 1861, p. 33.

LITTLE BAT.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

Genus 272. **Lasiurus.**

**Lasiurus** Gray, Zoöl. Misc., 1831, No. 1, p. 38. Type *Vespertilio borealis* Müller.

*Atalapha* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1870,  
p. 907. (nec Rafin.)

899. *Lasiurus borealis* (Müller).

*Vespertilio borealis* Müll., Natursyst., Suppl., 1776, p. 21.

*Vespertilio noveboracensis* Erxl., Syst. Reg. Anim., I, 1777, p.  
155.

*Vespertilio lasiurus* Schreb., Säugth., Abth. I, 1781, Taf. LXIIB.

*Vespertilio noveboracus* Bodd., Elench. Anim., I, 1785, p. 71.

*Vespertilio rubellus* Beauv., Cat. Peale's Mus. Phil., 1796, p. 204.

*Vespertilio rubra* Ord, Guthrie's Geogr., 2d Amer. ed., II, 1815,  
p. 291.

*Vespertilio tessellatus* Rafin., Am. Month. Mag., III, 1818, p. 445.

*Vespertilio monachus* Rafin., Am. Month. Mag., III, 1818, p. 445.

*Vespertilio rufus* Warden, Desc. États-Unis Amér., V, 1820, p. 606.

*Lasiurus funebris* Fitzing., Sitzungsab. K. Akad. Wiss. Wien, LXII,  
1870, p. 46.

*Atalapha borealis* Rhoads, Amer. Nat., XXVIII, 1894, p. 523.

*Lasiurus borealis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,  
1901, p. 411, fig. 88. Zoöl. Ser. *Id.* Mamm. Middle Amer.  
& W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 592. Zoöl.  
Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies,  
F. C. M. Pub., VI, 1905, p. 485. Zoöl. Ser.

RED BAT.

- 1-2. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat.  
Hist. N. Y. H. H. & C. S. Brimley.

3. Adult ♂ Exch. Patchogue, Long Island, New York. Am. Mus. Nat. Hist. N. Y. C. A. Smith.
4. Adult ♀ Pres. Jackson Park, Chicago, Illinois. H. Hanton.
5. Adult — Pres. Chicago, Illinois. C. E. Bragdon.
6. Adult — Pres. Maywood, Illinois. E. B. Chope.
7. Adult — Pres. Jackson Park, Chicago, Illinois. A. W. Slocum.
8. Adult ♂ Pres. Jackson Park, Chicago, Illinois. D. Zerberg.
9. Adult — Pres. Chicago, Illinois. Grace Wood.
10. Adult ♀ Pres. Jackson Park, Chicago, Illinois. E. Kuhn.
11. Adult — Pres. F. C. M., Jackson Park, Chicago, Illinois. P. Norris.
12. Adult ♀ Pres. Jackson Park, Chicago, Illinois. L. Kenkel.
13. Adult — Pres. Willow Springs, Illinois. W. J. Gerhard.
14. Adult ♂ Coll. Catawba, South Carolina. T. Surber.
15. Adult ♂ Pres. Greenway, Arkansas. L. Mitchell.
- 16-19. Adult ♀ Pres. Greenway, Arkansas. L. Mitchell.
20. Adult ♀ P. Chiricahua, Arizona. W. W. Price.
- 21-22. Juv. — P. Chiricahua, Arizona. W. W. Price.
23. Adult ♂ P. Toronto, Canada. G. F. Dippie.
24. Adult ♂ Pres. Jackson Park, Chicago, Illinois. A. J. Thompson.

*a. Lasiurus borealis teliotis* (H. Allen).

*Atalapha teliotis* H. Allen, Proc. Am. Phil. Soc., XXIX, 1891, p. 5.

*Lasiurus borealis teliotis* Elliot, Syn. N. Am. Mamm., F. C. M.

Pub., II, 1901, p. 413. Zool. Ser. *Id.* Mamm. Middle Amer.

& W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 593. Zool.

Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F.

C. M. Pub., VI, 1905, p. 486. Zool. Ser.

CALIFORNIA RED BAT.

1. Adult — Pres. Monterey, California. S. E. Meek. Leal & Pearson.

900. *Lasiurus cinereus* (Beauvois).

*Vespertilio cinereus* Beauv., Cat. Peale's Mus. Phil., 1796, p. 15.

*Vespertilio pruinus* Say, Long's Exped. Rocky Mts., I, 1823, p. 167. (Footnote.)

*Lasiurus cinereus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II,

1901, p. 413. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 595, figs. 110, LXXXVIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 487. Zoöl. Ser.

#### HOARY BAT.

1. Adult ♂ Pres. Jackson Park, Chicago, Illinois. T. Wark.
2. Adult — Pres. Jackson Park, Chicago, Illinois. E. B. Chope.
3. Adult ♀ Pres. Jackson Park, Chicago, Illinois. H. W. Clark.
4. Adult ♀ Coll. Minot, South Dakota. W. E. Snyder.
5. Adult ♂ Exch. Nicasio, California. Am. Mus. Nat. Hist. N. Y. C. A. Allen.
6. Adult ♂ Coll. San Antonio, Lower California, Mexico. E. Heller.

#### Genus 273. *Dasypterus*.

**Dasypterus** Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1871, p. 912. Type *Lasiurus intermedius* H. Allen.

##### a. *Dasypterus ega panamensis* Thomas.

*Dasypterus ega panamensis* Thos., Ann. Mag. Nat. Hist., 7th Ser., VIII, 1901, p. 246. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 597. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 487. Zoöl. Ser.

#### PANAMA BAT.

1. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

#### Genus 274. *Nycticeius*.

**Nycticeius** Rafin., Journ. Phys., LXXXVIII, 1819, p. 417. Type (by elimination) *Vespertilio humeralis* Rafinesque.

*Scotophilus* Leach, Trans. Linn. Soc. Lond., XIII, Pt. 1, 1821, pp. 69, 77-72. (nec Hubner, 1816, Lepid.)

##### 901. *Nycticeius humeralis* (Rafinesque).

*Vespertilio humeralis* Rafin., Amer. Month. Mag., III, 1818, p. 445.

*Nycticea crepuscularis* Le Conte, McMurtrie, Cuv. Anim. Kingd., I, 1831, p. 432.

*Nycticejus humeralis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., II, 1901, p. 415, fig. 90. Zoöl. Ser.



*Nycticeius humeralis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 598, figs. 112, xc. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 488. Zoöl. Ser.

RAFINESQUE'S BAT.

1. Adult ♀ Exch. Raleigh, North Carolina. Am. Mus. Nat. Hist. N. Y. C. S. Brimley.

902. *Nycticeius kuhli* (Leach).

*Scotophilus kuhlii* Leach, Trans. Linn. Soc. Lond., XIII, 1821, p.

72.

*Vespertilio temminckii* Horsf., Zoöl. Research., 1824.

*Vespertilio belangeri* I. Geoff., Bélang. Voy. Indes-Orient., 1834, pp. 87, 92, pl. 3.

*Vespertilio castaneus* Gray, Illust. Ind. Zoology, 1830-34.

*Nycticejus luteus* Blyth, Jour. Asiat. Soc. Beng., xx, p. 157.

*Nycticejus flaveolus* Blyth, Horsf. Cat. Mamm. Mus. E. I. Co., 1851, p. 37.

COMMON EASTERN YELLOW BAT.

1. Adult ♂ P. Panay, Philippine Islands. Bourns & Worcester.
- 2-3. Adult ♀ P. Panay, Philippine Islands. Bourns & Worcester.
4. Adult ♂ P. Concepcion, Philippine Islands. Bourns & Worcester.
5. Adult — P. Leyte, Philippine Islands. Bourns & Worcester.
6. Adult ♂ P. Bongon, North Borneo. E. Gerrard & Sons. (Alcohol.)

Genus 275. **Rhogoessa.**

**Rhogeëssa!** H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 285.  
Type *Rhogeëssa! tumida* H. Allen.

903. *Rhogoessa tumida* H. Allen.

*Rhogeëssa! tumida* H. Allen, Proc. Acad. Nat. Scien. Phil., 1866, p. 286.

*Rhogeëssa tumida* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 601, figs. 113, xci. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 498. Zoöl. Ser.



FIG. LXVII. RHOGOESSA TUMIDA. RESTLESS BAT.

**RESTLESS BAT.**

1. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Genus 276. **Miniopterus.**

**Miniopterus** Bonap., Icon. Faun. Ital., 1, fasc. xx, 1837; fasc. xxi, pl.—, fig. 1. Type *Vespertilio ursinii* Bonaparte = *Vespertilio schreibersii* Natterer.

*Miniopterus* Gray, Ann. Mag. Nat. Hist., 3d Ser., xvii, 1866, p. 91.

*Minneopterus* Lampe, Jahrb. Nassau. ver. Naturkunde, Jahrg. 53, Cat. Säug. Samml., 1900, p. 12.

**904. Miniopterus schreibersii** (Natterer).

*Vespertilio schreibersii* Natt., in Kuhl's Deutsche Flederm. Wetter. Ann., iv, 1819, p. 41.

*Vespertilio natalensis* Smith, S. Afr. Quart. Jour., ii, 1834, p. 59.

*Vespertilio fuliginosa* Hodg., Jour. Asiat. Soc. Beng., iv, 1835, p. 700.

*Miniopterus ursinii* Bonap., Icon. Faun. Ital., 1837.

*Trilatitus blepotis* Gray, Ann. Mag. Nat. Hist., x, 1842, p. 258.

*Vespertilio eschscholtzii* Waterh., Proc. Zool. Soc., 1845, p. 4.

**LONG-WINGED BAT.**

1. Adult — P. Japan. E. Gerrard & Sons.

**905. Miniopterus scotinus** Sundevall.

*Miniopterus scotinus* Sundev., Öfvers. Vetensk. Akad. Förh., 1846, p. 119.

*Miniopterus minor* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1866, p. 885.

SUNDEVALL'S LONG-WINGED BAT.

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

Subfamily II. **Plecotinæ.**

Genus 277. **Corynorhinus. Big-eared Bats.**

**Corynorhinus** H. Allen, Proc. Acad. Nat. Scien. Phil., 1865, p. 173.

Type *Plecotus macrotis* Le Conte.

*Plecotus* Le Conte, McMurtrie, Cuv. Anim. Kingd., 1, 1831, App., p. 431. (nec Geoffroy, 1813.)

*Synotus* H. Allen, Mon. N. Am. Bats, 1864, p. 62. (nec Keyserl. & Blasius, 1839.)

a. *Corynorhinus macrotis townsendi* (Cooper).

*Plecotus townsendii* Cooper, Ann. N. Y. Lyc. Nat. Hist., iv, 1837, p. 73.

*Corynorhinus macrotis townsendi* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 400, fig. 83. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. 11, 1904, p. 604. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 491. Zoöl. Ser.

TOWNSEND'S BIG-EARED BAT.

1. Adult ♂ Coll. Goldbeach, Oregon. E. Heller.

2-6. Adult ♀ Coll. Goldbeach, Oregon. E. Heller.

Genus 278. **Plecotus.**

**Plecotus** Geoff., Desc. Égypte, 11, 1813, pp. 112, 118-119, pl. 2, No.

3. Type ———?

906. **Plecotus auritus** (Linnæus).

*Vespertilio auritus* Linn., Syst. Nat., 1, 1766, p. 47.

*Vespertilio otus* Boie, Isis, 1825, p. 1206.

*Vespertilio cornutus* Faber, Isis, 1826, p. 515.

*Vespertilio brevimanus* Jenyns, Trans. Linn. Soc. Lond., xvi, 1828, p. 55.

*Plecotus auritus* Geoff., Descrip. Égypte, 1813, p. 118.

*Plecotus christii* Gray, Mag. Zoöl. & Bot., 11, 1838, p. 495.

## LONG-EARED BAT.

1. Adult ♂ P. Brunswick, Germany. J. A. Loring. (Alcohol.)

Subfamily III. **Antrozoinæ.**Genus 279. **Antrozous.**

**Antrozous** H. Allen, Proc. Acad. Nat. Scien. Phil., 1862, p. 248.

Type *Vespertilio pallidus* Le Conte.

**907. Antrozous pallidus** (Le Conte).

*Vespertilio pallidus* Le Conte, Proc. Acad. Nat. Scien. Phil., 1856, p. 437.

*Antrozous pallidus* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 396, fig. 82. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., 14, Pt. 11, 1904, p. 605, figs. 115, xciii. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., 16, 1905, p. 491. Zoöl. Ser.

## BIG-EARED PALE BAT.

1. Adult ♀ Coll. Lone Pine, Inyo County, California. E. Heller.
2. Adult ♀ Coll. Coso Mts., Inyo County, California. E. Heller.
3. Adult ♂ P. White Mountains, Arizona. W. W. Price.
- 4-8. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.
- 9-21. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

*a. Antrozous pallidus pacificus* Merriam.

*Antrozous pallidus pacificus* Merr., Proc. Biol. Soc. Wash., 11, 1897, p. 180. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 397. Zoöl. Ser. *Id.* Mamm. Middle Amer. & W. Indies, F. C. M. Pub., 14, Pt. 11, 1904, p. 607. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., 16, 1905, p. 491. Zoöl. Ser.

## PACIFIC BIG-EARED BAT.

1. Adult ♂ Topotype. Coll. Fort Tejon, California. E. Heller.
- 2-4. Adult ♀ Topotypes. Coll. Fort Tejon, California. E. Heller.
5. Adult ♀ P. San Rafael, California. C. K. Worthen.



- 6-10. Adult ♂ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.  
 11-23. Adult ♀ Coll. Jaral, State of Coahuila, Mexico. Heller & Barber.

Genus 280. **Nyctophilus.**

**Nyctophilus** Leach, Trans. Linn. Soc. Lond., XIII, Pt. 1, 1821, p. 78. Type *Nyctophilus geoffroyi* Leach.

908. **Nyctophilus timoriensis** E. Geoffroy.

*Nyctophilus timoriensis* E. Geoff., Ann. Mus. Hist. Nat. Paris, VIII, 1806, p. 200.

AUSTRALIAN BIG-EARED BAT.

1. Adult ♂ P. Australia? E. Gerrard & Sons. (Alcohol.)

Family V. **Noctilionidæ.**

Subfamily I. **Sacopterinae.**

Genus 281. **Emballonura.**

**Emballonura** Temm., Van d. Hoev., Tijd. Nat. Gesch. en Physiol., v, 1838, p. 22. Type *Emballonura monticola* ? Temminck.

*Mosia* Gray, Ann. Mag. Nat. Hist., 1st Ser., XI, 1843, p. 117.

Subgenus A. **Mosia.**

909. **Emballonura nigrescens** (Gray).

*Mosia nigrescens* Gray, Zoöl. Voy. 'Sulphur,' Mamm., 1844, p. 23.

BLACKISH SHEATH-TAILED BAT.

1. Adult ♂ P. Moluccas ? E. Gerrard & Sons. (Alcohol.)

Genus 282. **Sacopteryx.**

**Sacopteryx** Illig., Prodr. Syst. Mamm. et Av., 1811, p. 121. Type *Vespertilio lepturus* Schreber.

*Urocryptus* Temm., Van d. Hoev., Tijd. Nat. Gesch. en Physiol., v, 1838-39, pp. 31-34, pl. II, figs. 3, 4.

*Centronycteris* Gray, Mag. Zoöl. & Bot., II, 1838, p. 499.

**910. Saccopteryx bilineata** (Temminck).

*Urocryptus bilineatus* Temm., Van d. Hoev., Tijds. Nat. Gesch. en Physiol., v, 1838, p. 33, figs. 3, 4.

*Saccopteryx bilineata* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. II, 1904, p. 610, fig. 117. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 493. Zoöl. Ser.

**WHITE-STRIPED BAT.**

1-2. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.

3-5. Adult ♀ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.

6-18. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)

19-49. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)

**Genus 283. Balantiopteryx.**

**Balantiopteryx** Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1867, p. 476. Type *Balantiopteryx plicata* Peters.

**911. Balantiopteryx plicata** Peters.

*Balantiopteryx plicata* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1867, p. 476. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. II, 1904, p. 611, figs. 118, xcv. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 493. Zoöl. Ser.

**POUCHED BAT.**

1. Adult — Coll. Puente de Ixtla, State of Morelos, Mexico. F. E. Lutz.

2. Adult ♂ P. Lower California, Mexico. J. F. Abbott.

3. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.

4-7. Adult ♀ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.

8-28. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber. (Alcohol.)

29-55. Adult ♀ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber. (Alcohol.)

56-59. Adult — Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber. (Alcohol.)

Genus 284. **Taphozous.**

**Taphozous** Geoff., Desc. Égypte, II, 1813, pp. 113-114, 126-128, pl. 3, No. 1. Type *Taphozous perforatus* Geoffroy.

*Taphonycteris* Dobs., Proc. Zool. Soc., 1875, pp. 548, 555-556.

Subgenus A. *Taphonycteris*.

912. **Taphozous affinis** Dobson.

*Taphozous affinis* Dobson, Ann. Mag. Nat. Hist., 4th Ser., xvi, 1875, p. 232.

ALLIED SHEATH-TAILED BAT.

1. Adult ♂. P. ———? E. Gerrard & Son. (Alcohol.)

Family VI. **Molossidæ.**Subfamily I. **Molossinæ.**Genus 285. **Cheiromeles.**

**Cheiromeles** Horsf., Zool. Research. Java, 1824, figs. A-G, I-M, O-P. Type *Cheiromeles torquatus* Horsfield.

913. **Cheiromeles torquatus** Horsfield.

*Cheiromeles torquatus* Horsf., Zool. Research. Java, 1824.

*Dysopes cheiropus* Temm., Mon. Mamm., I, 1827, p. 218, pl. xvii.

*Cheiromeles caudatus* Temm., Mon. Mamm., II, 1835-41, p. 348, pl. XLVI.

SCANTILY HAired BAT.

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 286. **Molossus.**

**Molossus** E. Geoff., Ann. Mus. Hist. Nat. Paris, VI, 1805, p. 151.

Type *Molossus rufus* E. Geoffroy,

*Dysopes* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 122.

a. *Molossus rufus obscurus* (E. Geoffroy).

*Molossus obscurus* E. Geoff., Ann. Mus. Hist. Nat. Paris, VI, 1805, p. 155.

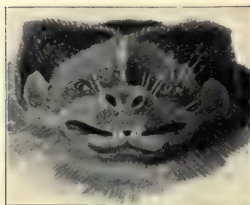


FIG. LXVIII. MOLOSSUS RUFUS. RUFOUS MASTIFF BAT.

*Molossus longicaudatus* E. Geoff., Ann. Mus. Hist. Nat. Paris, vi, 1805, p. 155.

*Molossus acuticaudatus* Desm., Mamm., 1820, p. 116.

*Dysopes velox* Temm., Mon. Mamm., i, 1827, p. 234.

*Molossus fuliginosus* Gray, Mag. Zool. & Bot., ii, 1838, p. 501.

*Dysopes olivaceo-fuscus* Wagn., Abh. Akad. Münch., v, 1844, p. 202.

*Dysopes fumarius* Burm., Syst. Uebers. Thiere Bras., i, 1854, p. 71.

*Molossus aztecus* Sauss., Rev. Mag. Zool., 2me Sér., xii, 1860, p. 285.

*Molossus rufus obscurus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. ii, 1904, p. 620. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 495. Zool. Ser.

#### DUSKY MASTIFF BAT.

1. Adult ♂ P. Court House, Tobago, British West Indies. P. Rendell.

#### 914. *Molossus nigricans* Miller.

*Molossus nigricans* Miller, Proc. Acad. Nat. Scien. Phil., 1902, p. 395. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv, Pt. ii, 1904, p. 620. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 496. Zool. Ser.

#### BLACKISH MASTIFF BAT.

1-6. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

7-15. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

#### 915. *Molossus pretiosus* Miller.

*Molossus pretiosus* Miller, Proc. Acad. Nat. Scien. Phil., 1902, p. 396.



## EXTRAVAGANT BAT.

1. Adult ♀ Exch. Venezuela. U. S. Nat. Mus. Lyon & Robinson.

Genus 287. **Nyctinomops.**

**Nyctinomops** Miller, Proc. Acad. Nat. Scien. Phil., 1902, p. 393.

Type *Nyctinomus femorosaccus* Merriam.

916. **Nyctinomops femorosaccus** (Merriam).

*Nyctinomus femorosaccus* Merr., N. Am. Faun., No. 2, 1889, p. 23. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 417. Zool. Ser.

*Nyctinomops femorosaccus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 626. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 498. Zool. Ser.

## PALM SPRINGS FREE-TAILED BAT.

1. Adult ♀ Topotype. Coll. Palm Springs, California. E. Heller. (Alcohol.)

Genus 288. **Nyctinomus.**

**Nyctinomus** E. Geoff., Desc. Égypte, Mamm., 11, 1813, pp. 114, 128-130, pl. 2, No. 2. Type *Nyctinomus ægyptiacus* E. Geoffroy.

*Dinops* Savi, Nouv. Giorn. de Lett., 1825, p. 230.

*Dysopes* Cretzsch., Rüpp. Atl. Reis. Nordl. Afr., Zool., 1826, p. 69. (nec Illig.)

917. **Nyctinomus mexicanus** Saussure.

*Nyctinomus mexicanus* Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 283. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. 11, 1904, p. 629, fig. 125. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 500. Zool. Ser.

*Nyctinomus mohavensis* Merr., N. Am. Faun., No. 2, 1889, p. 25. Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 418. Zool. Ser.

*Nyctinomus brasiliensis californicus* H. Allen, Mon. N. Am. Bats, 1894, p. 166.

*Nyctinomus brasiliensis* Elliot, Syn. N. Am. Mamm., F. C. M. Pub., 11, 1901, p. 417. Zool. Ser. (nec Geoffroy.)

## MEXICAN FREE-TAILED BAT.

- 1-7. Adult ♂ Coll. Enterprise, Florida. T. Surber.  
 8-17. Adult ♀ Coll. Enterprise, Florida. T. Surber.  
 18-26. Adult — Coll. Enterprise, Florida. T. Surber.  
 27. Adult ♂ Exch. Enterprise, Florida. Am. Mus. Nat. Hist. N. Y. L. W. Brownell.  
 28. Adult ♂ Exch. San Antonio, Texas. Am. Mus. Nat. Hist. N. Y. H. P. Attwater.  
 29. Adult ♂ Exch. Guadalajara, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.  
 30. Adult ♀ Exch. Guadalajara, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.  
 31-36. Adult ♂ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz.  
 37-50. Adult ♀ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz.  
 51-55. Adult ♂ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz. (Alcohol.)  
 56-86. Adult ♀ Coll. La Palma, State of Michoacan, Mexico. F. E. Lutz. (Alcohol.)  
 87-88. Adult ♂ Coll. Fort Tejon, California. E. Heller.  
 89-94. Adult ♀ Coll. Fort Tejon, California. E. Heller.  
 95. Adult ♀ Coll. Palm Springs, California. E. Heller.  
 96-97. Adult ♀ P. ———? E. Gerrard & Sons. (Alcohol.)  
 98. Adult ♂ Coll. San José, California. S. E. Meek. (Alcohol.)  
 99. Adult ♂ Coll. Ensenada, Lower California, Mexico. E. Heller. (Alcohol.)  
 100-106. Adult ♂ Coll. Mexico. Heller & Barber. (Alcohol.)  
 107-108. Adult ♀ Coll. Mexico. Heller & Barber. (Alcohol.)

918. *Nyctinomus antillularum* Miller.

*Nyctinomus antillularum* Miller, Proc. Acad. Nat. Scien. Phil., 1902, p. 398.

## DOMINICAN FREE-TAILED BAT.

1. Adult ♀ Paratype. Exch. Island of Dominica. U. S. Nat. Mus. H. S. Branch.

919. *Nyctinomus acetabulosus* (Peters).

*Molossus acetabulosus* Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1869, p. 402.

*Nyctinomus acetabulosus* Desm., Mamm., 1820, p. 117.

*Nyctinomus natalensis* Smith, Illustr. S. Afr. Zool., 1847, pl. 49.

*Nyctinomus* (*Mormopterus*) *jugularis* Peters, Proc. Zool. Soc., 1865, p. 468.

MADAGASCAR FREE-TAILED BAT.

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

Family VII. **Thyropteridæ. Funnel-eared Bats.**

Genus 289. **Chilonatalis.**

**Chilonatalus** (sic) Miller, Proc. Acad. Nat. Scien. Phil., 1898, p. 326. Type *Natalus! micropus* Dobson.

920. **Chilonatalis brevimanus** Miller.

*Natalus! micropus* Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1890, p. 169. (nec Dobson.)

*Natalus!* (*Chilonatalus!*) *brevimanus* Miller, Proc. Acad. Nat. Scien. Phil., 1898, p. 328.

*Chilonatalis brevimanus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II. 1904, p. 636, figs. 128, ciii. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 502. Zool. Ser.

SHORT-HAND BAT.

1. Adult ♂ No history. (Alcohol.)

Family VIII. **Phyllostomatidæ. Vampire Bats.**

Subfamily I. **Mormopinæ.**

Genus 290. **Chilonycteris.**

**Chilonycteris** Gray, Ann. Nat. Hist., or Mag. Zool. Bot. Geol., IV, 1839, p. 4. Type *Chilonycteris macleayii* Gray.

*Lobostoma* Gundl., Wieg. Archiv f. Naturg., I, 1840, p. 356.

*Phyllodia* Gray, Proc. Zool. Soc., 1843, p. 50.

921. **Chilonycteris personata** Wagner.

*Chilonycteris personata* Wagn., Archiv f. Naturg., IX, 1843, p. 367. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 641. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 504. Zool. Ser.

## MASKED BAT.

1. Adult — P. Guatemala. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 291. \**Pteronotus*.

*Pteronotus* Gray, Mag. Zoöl. & Bot., II, 1838, p. 500. Type *Pteronotus davyi* Gray. (nec Rafinesque, nomen nudum.)

*Dermonotus* Gill, Proc. Biol. Soc. Wash., XIV, 1901, p. 177.

922. *Pteronotus davyi* Gray.

*Pteronotus davyi* Gray, Mag. Zoöl. & Bot., II, 1838, p. 500.

*Dermonotus davyi* Elliot, Mamm. Middle Amer. & W. Indies, F. C.

M. Pub., IV, Pt. II, 1904, p. 644, figs. 131, CVI. Zoöl. Ser. *Id.*

, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 506. Zoöl. Ser.

## DAVY'S BAT.

1. Adult — Exch. State of Michoacan, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

a. *Pteronotus davyi fulvus* (Thomas).

*Chilonycteris davyi fulvus* Thos., Ann. Mag. Nat. Hist., 6th Ser., X, 1892, p. 410.

*Dermonotus davyi fulvus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 646. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 506. Zoöl. Ser.

## LAS PEÑAS BAT.

1. Adult ♂ Coll. Esperanza, State of Puebla, Mexico. Heller & Barber.

Genus 292. *Mormops*.

*Mormoops* (sic) Leach, Trans. Linn. Soc., XIII, 1820, p. 76. Type *Mormoops! blainvillii* Leach.

a. *Mormops blainvillii cinnamomea* (Gundlach).

*Lobostoma cinnamomeum* Gundl., Wieg. Archiv f. Naturg., VI, 1840, p. 357.

*Mormops blainvillii cinnamomea* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 649. Zoöl. Ser.

\* See Miller, Proc. Biol. Soc. Wash., XVIII, 1905, p. 223.



*Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 507. Zoöl. Ser.

## CINNAMON BAT.

1. Adult ♂ P. Aquacate, San Domingo. G. K. Cherrie.

923. *Mormops intermedia* Miller.

*Mormoops! intermedia* Miller, Proc. Acad. Nat. Scien. Phil., 1902, p. 403.

## INTERMEDIATE BAT.

1. Adult ♂ Exch. Curaçao, Venezuela. U. S. Nat. Mus. L. J. Guthrie.

Subfamily II. *Phyllostomatinae*.Genus 293. *Otopterus*.

*Otopterus* Lydekker, in Flow. & Lydekk. Mamm. Living & Extinct, 1891, p. 673. Type *Macrotus waterhousii* Gray.

*Macrotus* Gray, Proc. Zoöl. Soc., 1843, p. 21. (nec Leach, 1816, Vespertil; nec Dejean, 1833, Coleopt; nec Reid, 1836, Marsupialia.)

924. *Otopterus waterhousii* (Gray).

*Macrotus waterhousii* Gray, Proc. Zoöl. Soc., 1843, p. 21.

*Otopterus waterhousii* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 652, figs. 134, CIX. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 508. Zoöl. Ser.

## WATERHOUSE'S LARGE-EARED BAT.

1-2. Adult ♂ P. San Domingo City, Haiti. G. K. Cherrie.

3. Adult ♂ P. "Guadjara." E. Gerrard & Sons. (Alcohol.)



FIG. LXIX. *OTOPTERUS WATERHOUSII*. WATERHOUSE'S LARGE-EARED BAT.

**925. *Otopterus mexicanus* (Saussure).**

*Macrotus mexicanus* Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 486.

*Otopterus mexicanus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 653. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 510. Zoöl. Ser.

SAUSSURE'S LARGE-EARED BAT.

1. Adult ♂ Exch. Tehuantepec, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

**926. *Otopterus bocourtianus* (Dobson).**

*Macrotus bocourtianus* Dobson, Ann. Mag. Nat. Hist., 4th Ser., 1876, p. 436.

*Macrotus mexicanus* J. A. Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 179.

*Otopterus bocourtianus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 654. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 510. Zoöl. Ser.

BOCOURT'S LARGE-EARED BAT.

1. Adult — Pres. Yucatan.

**927. *Otopterus bulleri* (H. Allen).**

*Macrotus bulleri* H. Allen, Proc. Am. Phil. Soc., XXVIII, 1890, p. 73.

*Otopterus bulleri* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 654. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 510. Zoöl. Ser.

BULLER'S LARGE-EARED BAT.

1-2. Adult ♂ Topotypes. Exch. Bolaños, State of Jalisco, Mexico. Am. Mus. Nat. Hist. N. Y. A. Buller.

**Genus 294. *Vampyrus*.**

***Vampyrus*** Leach, Trans. Linn. Soc., XIII, 1821, p. 79. Type *Vespertilio spectrum* Linnæus.

**928. *Vampyrus auritus* Peters.**

*Vampyrus auritus* Peters, Abhandl. Akad. Wiss. Berl., 1856, p. 305, pl. II, fig. 1.

*Chrotopterus auritus* Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1865, p. 505.

## GREAT-EARED BAT.

1. Adult ♂ Pres. Buenavista, Yucatan. G. F. Gaumer.

Genus 295. **Micronycteris.**

**Micronycteris** Gray, Proc. Zool. Soc., 1866, p. 113. Type *Phyllophora megalotis* Gray.

*Schizostoma* Gerv., Expéd. du Comt. de Castelnau Amér. Sud, Zool., 1855, p. 49. (nec Bronn, 1835, Mollusca.)

*Vampyrella* Reinh., Vidensk. Meddel. Naturh. Foren. Kjöbenh., 3 Aartis, IV, 1872, p. 111.

929. **Micronycteris megalotis** (Gray).

*Phyllophora megalotis* Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 257.

*Phyllostoma elongata* Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 257. (nec Geoffroy.)

*Phyllostoma scrobiculatum* Wagn., Schreb. Säugth., Suppl., v, 1855, p. 627.

*Micronycteris megalotis* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 662, figs. 138, CXII. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 513. Zool. Ser.

## LARGE-EARED VAMPIRE BAT.

1. Adult ♂ P. Richmond, Island of Tobago, Brit. W. I. P. Rendall.

a. *Micronycteris megalotis mexicana* Miller.

*Micronycteris megalotis mexicanus* Miller, Proc. Acad. Nat. Scien. Phil., 1898, p. 329. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 662. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 513. Zool. Ser.

## MEXICAN VAMPIRE BAT.

- 1-3. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.  
 4-6. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.  
 7. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)  
 8-9. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)

Genus 296. **Phyllostoma.**

**Phyllostomus** (sic) Lacép., Tabl. Div. Sous-div. Ordres et Genres des Mamm., 1799, p. 16. Type *Vespertilio hastatus* Pallas.

**930. Phyllostoma verrucosum** Elliot.

*Phyllostoma verrucosum* Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 236.

## WARTY-LIPPED BAT.

- 1-3. Adult ♀ Type and paratypes. Coll. Niltepec, State of Oaxaca, Mexico. Heller & Barber.
- 4-9. Adult ♂ Paratypes. Coll. Niltepec, State of Oaxaca, Mexico. Heller & Barber.
- 10-36. Adult ♂ Paratypes. Coll. Niltepec, State of Oaxaca, Mexico. Heller & Barber. (Alcohol.)
- 37-41. Adult ♀ Paratypes. Coll. Niltepec, State of Oaxaca, Mexico. Heller & Barber. (Alcohol.)

**931. Phyllostoma hastatum** (Pallas).

*Vespertilio hastatus* Pallas, Spicil. Zool., fasc. III, 1767, p. 7.

*Phyllostomus! maximus* Max., Reise Bras., II, 1820-21, p. 242.

*Phyllostoma hastatum* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 666, figs. 140, CXIV. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 514. Zool. Ser.

## SPEAR-NOSED BAT.

- 1-2. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 3. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 4. Adult—P. Peru. Ward's Nat. Scien. Establ., Rochester, N. Y.



FIG. LXX. *PHYLLOSTOMA HASTATUM*.  
SPEAR-NOSED BAT.



Genus 297. **Hemiderma.**

**Hemiderma** Gerv., Expéd. du Comt. de Castelnau Amér. Sud, Zool., Mamm., 1855, p. 43. Type *Phyllostoma brevicaudum* Maximilian.

*Carollia* Gray, Mag. Zoöl. & Bot., 11, 1838, p. 488. (nec Cantraine, 1837, Mollusca.)

**932. Hemiderma subrufum** Hahn.

*Hemiderma subrufum* Hahn, Proc. Biol. Soc. Wash., XVIII, 1905, p. 247.

## REDDISH BROWN SHORT-TAILED BAT.

1-3. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)

4-24. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)

25-27. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

28-30. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

31-32. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.

33. Adult ♀ Pres. Cayenne, French Guiana. Benj. T. Gault. Cherrie & Gault.

34-39. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

40-47. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

48. Adult ♀ P. Caparo Valley, Trinidad. P. Rendall.

49. Adult — P. Venezuela. Deyrolle Fils.

Subfamily III. **Glossophaginæ.**Genus 298. **Glossophaga.**

**Glossophaga** E. Geoff., Mém. Mus. Hist. Nat. Paris, IV, 1818, pp. 413, 418, pls. 17, 18. Type *Vespertilio soricinus* Pallas.

*Phyllophora* Gray, Mag. Zoöl. & Bot., 11, 1838, p. 489.

*Nicon* Gray, Proc. Zoöl. Soc., 1847, p. 15.

**933. Glossophaga mutica** Merriam.

*Glossophaga mutica* Merr., Proc. Biol. Soc. Wash., XII, 1898, p. 18.

Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV,

Pt. II, 1904, p. 671. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 516. Zool. Ser.

MARIA MADRE ISLAND BAT.

- 1-3. Adult ♂ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.
- 4-5. Adult ♀ Coll. San Geronimo, State of Oaxaca, Mexico. Heller & Barber.
- 6-8. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 9-12. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 13-33. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)
- 34. Juv. ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)
- 35-91. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber. (Alcohol.)
- 92-95. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 96-101. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 102-104. Adult — P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

934. *Glossophaga longirostris* Miller.

*Glossophaga longirostris* Miller, Proc. Acad. Nat. Scien. Phil., 1898, p. 330.

LONG-NOSED BAT.

- 1. Adult ♀ Exch. Macuto, Venezuela. U. S. Nat. Mus. Lyon & Robinson. (Alcohol.)

935. *Glossophaga elongata* Miller.

*Glossophaga elongata* Miller, Proc. Biol. Soc. Wash., 1900, p. 124.

NARROW-SKULL BAT.

- 1. Adult ♀ Exch. Savonet, Curaçoa, Venezuela. U. S. Nat. Mus. L. J. Guthrie. (Alcohol.)

936. *Glossophaga soricina* (Pallas).

*Vespertilio soricinus* Pall., Misc. Zool., 1766, p. 48, pl. iv, figs. 16-18, pl. v.

*Glossophaga amplexicaudata* E. Geoff., Mém. Mus. Hist. Nat. Paris, IV, 1818, p. 418, pl. XVIII.

*Phyllophora nigra* Gray, Voy. 'Sulphur,' Mamm., 1844, p. 18, pl. v, fig. 1.

*Monophylla leachii* Gray, Voy. 'Sulphur,' Mamm., 1844, p. 18.

*Nicon caudifer* Gray, Ann. Mag. Nat. Hist., 1st Ser., XIX, 1847, p. 407.

*Glossophaga soricina* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 672, figs. 142, cxvi. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 516. Zoöl. Ser.

SHREW-LIKE BAT.

- 1-2. Adult — No history.
3. Adult — P. No history. E. Gerrard & Sons. (Alcohol.)
4. Adult — P. Central America. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 299. **Chæronycteris.**

**Chæronycteris** Licht., in Tschudi's Faun. Peruana, Mamm., 1844, p. 70, Taf. III. Type *Chæronycteris mexicana* Tschudi.

937. **Chæronycteris mexicana** Tschudi.

*Chæronycteris mexicana* Tsch., Faun. Peruana, 1844, p. 72, Taf. III, fig. 3. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 673, fig. cxvii. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 517. Zoöl. Ser.

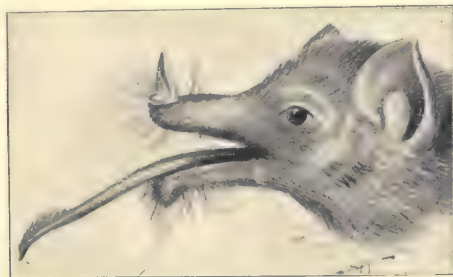


FIG. LXXI. CHÆRONYCTERIS MEXICANA.  
TRES MARIAS ISLANDS BAT.

TRES MARIAS ISLANDS BAT.

1. Adult — P. ————— ? E. Gerrard & Sons. (Alcohol.)
2. Adult — Coll. Patzcuaro, State of Michoacan, Mexico. F. E. Lutz. (Alcohol.)

Genus 300. **Monophyllus.**

**Monophyllus** Leach, Trans. Linn. Soc., XIII, 1821, p. 75. Type *Monophyllus redmani* Leach.

**938. *Monophyllus cubanus* Miller.**

*Monophyllus cubanus* Miller, Proc. Acad. Nat. Scien. Phil., 1902, p. 410. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 678. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 519. Zoöl. Ser.

**CUBAN NOSE-LEAF BAT.**

1. Adult ♂ Exch. Baracoa, Island of Cuba. U. S. Nat. Mus. W. Palmer. (Alcohol.)

**Genus 301. *Phyllonycteris*.**

***Phyllonycteris*** Gundl., Monatsb. K. Preuss. Akad. Wiss. Berl., 1860, p. 817. Type *Phyllonycteris poeyi* Gundlach.

**939. *Phyllonycteris sancta-cristobalensis* Elliot.**

*Phyllonycteris sancta-cristobalensis* Elliot, Proc. Biol. Soc. Wash., XVIII, 1905, p. 236. (Misprinted *santa-cristobalensis*.)

**SAN DOMINGO BAT.**

1. Adult — Type. Coll. San Cristobal, San Domingo, W. I. G. K. Cherrie.

**940. *Phyllonycteris planifrons* Miller.**

*Phyllonycteris planifrons* Miller, Proc. Biol. Soc. Wash., XII, 1899, p. 34. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 685. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 520. Zoöl. Ser.

**FLAT-FOREHEAD BAHAMA BAT.**

1. Adult ♀ Exch. Nassau, Bahama Islands. U. S. Nat. Mus. J. E. Benedict. (Alcohol.)

**941. *Phyllonycteris poeyi* Gundlach.**

*Phyllonycteris poeyi* Gundl., Monatsb. K. Preuss. Akad. Wiss. Berlin, 1860, p. 817. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 686. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 521. Zoöl. Ser.

**POEY'S BAT.**

1. Adult ♀ Exch. Guanajay, Island of Cuba. U. S. Nat. Mus. Palmer & Riley. (Alcohol.)

**Genus 302. *Brachyphylla*.**

***Brachyphylla*** Gray, Proc. Zoöl. Soc., 1834, p. 122. Type *Brachyphylla cavernarum* Gray.



**942. *Brachyphylla cavernarum* Gray.**

*Brachyphylla cavernarum* Gray, Proc. Zool. Soc., 1834, p. 123.  
 Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt.  
 II, 1904, p. 689, fig. 149. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 521. Zool. Ser.

**CAVERN NOSE-LEAF BAT.**

1. Adult ♂ Exch. Island of St. Vincent, W. I. U. S. Nat. Mus.
2. Adult ♀ Exch. Island of St. Lucia, W. I. U. S. Nat. Mus.

**943. *Brachyphylla nana* Miller.**

*Brachyphylla nana* Miller, Proc. Acad. Nat. Scien. Phil., 1902, p.  
 409. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub.,  
 IV, Pt. II, 1904, p. 690, figs. 150, CXXIII. Zool. Ser. *Id.*  
 Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub.,  
 VI 1905, p. 522. Zool. Ser.



FIG. LXXII. *BRACHYPHYLLA NANA*.  
 DWARF NOSE-LEAF BAT.

**DWARF NOSE-LEAF BAT.**

- 1-5. Adult ♂ P. Santiago, Cuba. S. H. Hamilton.
- 6-11. Adult ♀ P. Santiago, Cuba. S. H. Hamilton.
- 12-15. Adult — P. Santiago, Cuba. S. H. Hamilton. (Alcohol.)

**Subfamily IV. *Stenodermatinæ*.****Genus 303. *Artibeus*.**

***Artibeus*** Leach, Trans. Linn. Soc., XIII, 1821, p. 75. Type *Artibeus jamaicensis* Leach.

*Madateus* Leach, Trans. Linn. Soc., XIII, 1821, p. 81.

*Pteroderma* Gerv., Expéd. du Comte de Castelnau Amér. Sud, Zool., 1855, p. 34.

**944. *Artibeus jamaicensis* Leach.**

*Artibeus jamaicensis* Leach, Trans. Linn. Soc., XIII, 1821, p. 75.

Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 693, figs. 151, CXXIV. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 522. Zool. Ser.

*Artibeus carpolegus* Gosse, Nat. Sojourn in Jamaica, 1851, p. 271, pl. VI, fig. 5.

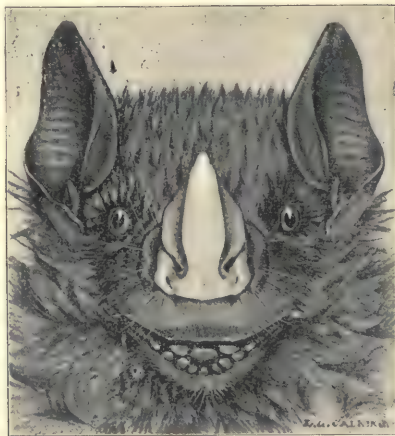


FIG. LXXIII. *ARTIBEUS JAMAICENSIS*.  
JAMAICA BAT.

**JAMAICA BAT.**

1. Adult ♂ P. San Cristobal, San Domingo. G. K. Cherrie.
- 2-4. Adult ♂ P. Santiago, Cuba. S. H. Hamilton.
- 5-7. Adult ♀ P. Santiago, Cuba. S. H. Hamilton.

**945. *Artibeus intermedius* J. A. Allen.**

*Artibeus carpolegus* J. A. Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1891, p. 205. (nec Gosse.)

*Artibeus intermedius* J. A. Allen, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 33. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 694. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 523. Zool. Ser.

**INTERMEDIATE BAT.**

1. Adult—Coll. San Domingo City, San Domingo. G. K. Cherrie.

**946. *Artibeus palmarum* Allen & Chapman.**

*Artibeus palmarum* Allen & Chapman, Bull. Am. Mus. Nat. Hist. N. Y., 1897, p. 16.

*Artibeus femurvillosum* Bangs, Proc. N. Engl. Zool. Club, 1, 1899, p. 73.

TRINIDAD BAT.

1. Adult ♂ Exch. Macuto, Venezuela. U. S. Nat. Mus. Lyon & Robinson. (Alcohol.)

### Genus 304. *Uroderma*.

*Uroderma* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1865, p. 588. (Footnote.) Type *Uroderma bilobatum* Peters = *Phyllostoma personatum* Peters.

#### 947. *Uroderma bilobatum* Peters.

*Phyllostoma personatum* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1865, pp. 587, 588. (nec Wagner.)

*Uroderma bilobatum* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1866, p. 392.

TWO-LOBED BAT.

- 1-2. Adult ♂ P. Cacaqualito, Colombia, S. A. H. H. Smith.
3. Adult ♀ P. Cacaqualito, Colombia, S. A. H. H. Smith.
- 4-5. Adult ♂ P. Bonda, Colombia, S. A. H. H. Smith.
6. Adult ♀ P. Bonda, Colombia, S. A. H. H. Smith.

#### 948. *Uroderma validum* sp. nov.

VALID BAT.

*Type locality.* Cayenne, French Guiana, South America.

*Genl. Char.* Size large; similar in appearance to *Artibeus hercules* Rehn, but with a larger skull and teeth, shorter palate and entirely differently shaped condyle and coronoid process, the latter having no "forward trend" like that of the species cited. The type of *A. hercules* having been immersed for a lengthened period in alcohol, the color of the two forms cannot be compared.

*Color.* A white streak from either side of the nose-leaf extends to the inside base of each ear; circle around eye, front and top of head and entire upper parts dark seal brown; beneath paler brown, with white hairs intermingled on lower breast and abdomen; nose-leaf and lips, membranes, feet and ears black.

*Measurements.* Head and body, 88; foot, 17; ear, 22, (taken in the flesh by collector) forearm, 67; tibia, 25. Skull: occipito-nasal length, 27; Hensel, 13; zygomatic width, 19.5; interorbital width, 8; height of braincase above zygomata, 12; palatal length, palatal arch to base of incisors, 12; width of palate between third pre-



FIG. LXXIV. *URODERMA VALIDUM*. VALID BAT.  
Enlarged  $1\frac{1}{2}$  times. Nose view enlarged  $2\frac{1}{4}$  times.

molar and first molar, 8; length of upper molar series, 9; inside length of first upper molar, 4.5; width of crown, 3; inside length of second molar, 4; length of mandible, 21; length of lower molar series, 11; alveolar length of first molar, 3; alveolar length of second molar, 2.5; height from lower border of ramus to top of coronoid process, 9.5; width of condyle at level of alveolar border of ramus, 7.

The skull of *A. hercules* Rehn has been kindly sent to me by Mr. Stone from the Phil. Acad. Collection. The differences in the size of the teeth, so much larger in the two specimens of the new form, the shape of the condyle, and the cranial characters mentioned, are very conspicuous, and seem to mark the Guiana specimens as quite distinct.

1-2. Adult ♂ Type & paratype. Pres. Cayenne, French Guiana,  
S. A. B. T. Gault. Cherrie & Gault.



Genus 305. **Dermanura.**

**Dermanura** Gervais, Expéd. Comte de Castelnau Amér. Sud, Zool., Mamm., 1855, p. 36. Type *Dermanura cinereum* Gervais.

949. **Dermanura cinereum** Gervais.

*Dermanura cinereum* Gerv., Expéd. Comte de Castelnau Amér. Sud, Zool., Mamm., 1855, p. 36, pl. VIII, fig. 4; pl. IX, figs. 4, 4a; pl. XI, fig. 3. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 699, figs. 154, CXXVII (*D. 4 - vittata.*). Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 525. Zool. Ser.

*Stenoderma tolteca* Sauss., Rev. Mag. Zool., 2me Sér., XII, 1860, p. 427, pl. xv, fig. 4.

## CINEREOUS BAT.

1. Adult — P. —————? E. Gerrard & Sons. (Alcohol.)

950. **Dermanura jucundum** Elliot.

*Dermanura jucundum* Elliot, Proc. Biol. Soc. Wash., XIX, 1906, p. 50.

## PRETTY STRIPED BAT.

1. Adult ♂ Type. Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Genus 306. **Vampyrops.**

**Vampyrops** Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1865, p. 356. Type *Phyllostoma lineatum* E. Geoffroy.

*Vampyressa* Thos., Ann. Mag. Nat. Hist., 7th Ser., v, 1900, p. 270.

*Vampyriscus* Thos., Ann. Mag. Nat. Hist., 7th Ser., v, 1900, p. 270.

*Vampyrodes* Thos., Ann. Mag. Nat. Hist., 7th Ser., v, 1900, p. 270.

951. **Vampyrops lineatus** (E. Geoffroy).

*Phyllostoma lineatum* E. Geoff., Ann. Mus. Hist. Nat. Paris, xv, 1810, p. 180.

*Vampyrops lineatus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 702. Zool. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 525. Zool. Ser.

## WHITE-STRIPED BAT.

1. Adult — P. Annai. E. Gerrard & Sons.

Subfamily V. **Desmodontinæ.**Genus 307. **Desmodon.**

**Desmodus** (sic) Max., Abbild. Naturg. Bras., 5th Lief., 1824, pl. and text. Type *Desmodus! rufus* Maximilian = *Phyllostoma rotundum* E. Geoffroy.

**952. Desmodon rotundum** (E. Geoffroy).

*Phyllostoma rotundum* E. Geoff., Ann. Mus. Hist. Nat. Paris, 1810, p. 181.

*Rhinolophus ecaudatus* Schinz, Cuv. Thiere., 1, 1821, p. 168.

*Desmodus! rufus* Max., Beitr. Naturg. Bras., 1826, p. 233.

*Edostoma cinerea* D'Orbigny, Voy. l'Amér. Mérid., IV, 1847, p. 11, pl. VIII.

*Desmodus! d'orbignyi* Waterh., Voy. 'Beagle,' Mamm., 1838, p. 1, pls. 5, xxxv, fig. 1.

*Desmodus! murinus* Wagn., Schreb. Säugth., Suppl., 1, 1847, p. 377.

*Desmodus! fuscus* Lund, Burm. Thiere. Bras., 1854, p. 57.

*Desmodus! rotundus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 718, figs. 162, cxxxvi. Zool. Ser.

*Desmodon rotundum* Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 530. Zool. Ser.

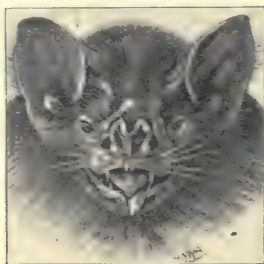


FIG. LXXV. *DESMODON ROTUNDUM*.  
RUFIOUS VAMPIRE BAT.

**RUFIOUS VAMPIRE BAT.**

1. Adult — P. Venezuela, S. A. Deyrolle Fils.
2. Adult — P. ——— ? E. Gerrard & Sons.
3. Adult ♂ Coll. Reforma, State of Oaxaco, Mexico. Heller & Barber.
- 4-14. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 15-16. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Order XI. **Primates. Primates.**

SUBORDER I. LEMUROIDEA.

Family I. **Lemuridæ. Lemurs.**

Subfamily I. **Indrisinæ.**

Genus 308. **Indris.**

**Indri** (sic) E. Geoff., Mag. Encyclop., 1, 1796, p. 46. Type *Lemur indri* Gmelin.

*Pithelemur* Less., Spec. Mamm., 1840, pp. 207-209.

**953. Indris indris** (Gmelin).

*Lemur indri* Gmel., Syst. Nat., 1, 1788, p. 42.

*Indri! brevicaudata* E. Geoff., Mag. Encyclop., 1796, p. 46.

*Lichanotus mitratus* Peters, Monatsb. K. Preuss. Akad. Wiss. Berl., 1871, p. 360.

*Indris brevicaudatus* Milne-Edw. & Grandid., Hist. Nat. Madag., Mamm., 1875, p. 336, pls. XI, XII.

**BLACK INDRIS.** *Batokoton*, native name.

1. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 309. **Propithecus.**

**Propithecus** Bennett, Proc. Zool. Soc., 1832, p. 20. Type *Propithecus diadema* Bennett.

*Macromerus* A. Smith, S. Afr. Quart. Jour., 2d Ser., II, 1833, p. 49. (nec Schönherr, 1826, Coleop.)

*Habrocebus* Wagn., Schreb. Säugth., Suppl., 1, 1840, pp. IX, vbis, 257, tab. XLII A.

**954. Propithecus diadema** Bennett.

*Propithecus diadema* Bennett, Proc. Zool. Soc., 1832, p. 20. Milne-Edw. & Grandid., Hist. Nat. Madag., 1, 1875, p. 296, pls. I-III.

*Macromerus typicus* A. Smith, S. Afr. Quart. Jour., 1833, p. 49.

*Habrocebus diadema* Wagn., Schreb. Säugth., Suppl., 1, 1840, p. 260.

## THE PROPITHEQUE.

1. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Propithecus diadema holomelas* (Günther).

*Propithecus holomelas* Günth., Ann. Mag. Nat. Hist., 4th Ser., xvi, 1875, p. 125.

## GÜNTHER'S PROPITHEQUE.

1. Adult — P. Madagascar. E. Gerrard & Sons.

955. *Propithecus verreauxi* Grandidier.

*Propithecus verreauxi* Grandid., Rev. Mag. Zool., 1867, pp. 84, 313.

*Id.* Album Réunion, iv, 1867, p. 152, pls. 1-2. Milne-Edw. & Grandid., Hist. Nat. Madag., Mamm., 1, 1875, p. 305, pls. IV, VIII.

## VERREAUX'S PROPITHEQUE.

- 1-2. Adult — P. Aneronpange District, Madagascar. E. Gerrard & Sons.
3. Juv. — P. Aneronpange District, Madagascar. E. Gerrard & Sons.

a. *Propithecus verreauxi deckeni* (Peters).

*Propithecus deckeni* Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1870, p. 421.

*Propithecus candidus* Grandid., Compt. Rend., 1871, p. 231.

## VON DECKEN'S PROPITHEQUE.

1. Adult — P. Manambolo River District, Madagascar. E. Gerrard & Sons.

b. *Propithecus verreauxi coquereli* (Grandidier).

*Cheirogaleus coquereli* Grandid., Rev. Mag. Zool., 1867, p. 2.

*Propithecus damonis* Gray, Proc. Zool. Soc., 1872, p. 847, No. 3.

*Propithecus damanus* Pollen, in Schleg., Mus. Hist. Nat. Pays-Bas, XII, 1876, p. 293.

## COQUEREL'S PROPITHEQUE.

1. Adult — P. Aneronpange District, Madagascar. E. Gerrard & Sons.

c. *Propithecus verreauxi coronatus* A. Milne-Edwards.

*Propithecus verreauxi* var. *coronatus* A. Milne-Edw., Rev. Scient., 1871, p. 224.

## CROWNED PROPITHEQUE.

1. Adult — P. Meyanga, N. W. Madagascar. E. Gerrard & Sons.



Genus 310. \***Lichanotus.**

**Lichanotus** Illig., Prodr. Syst. Mamm. et Avium, 1811, p. 72.

Type *Lemur laniger* Gmelin.

*Avahi!* Jourd., L'Institut., 11, 1834, p. 231.

*Microhynchus* Jourd., Thèse inaug. Facul. Scien. Grenoble, 1834. (nec Megerle, 1823, Coleop.)

**956. Lichanotus laniger** (Gmelin).

*Lemur laniger* Gmel., Syst. Nat., 1, 1788, p. 44.

*Indris longicaudatus* Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 158.

*Microhynchus laniger* Jourd., Thèse inaug. Facul. Scien. Grenoble, 1834. Mivart, Proc. Zool. Soc., 1864, p. 638.

*Indris laniger* A. Smith, S. Afr. Quart. Jour., 11, 1835, p. 27.

*Haplorhina lanatus* Wagn., Schreb. Säugth., Suppl., 1, 1840, p. 258.

*Avahis laniger* I. Geoff., Leçons Mamm. & Cat. Primates, 1851, p. 69.

WOOLLY LEMUR, AVAHIS.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

Subfamily II. **Lemurinae. Lemurs.**

Genus 311. **Lemur.**

**Lemur** Linn., Syst. Nat., 1, 1758, p. 29; 1, 1766, p. 44. Type *Lemur catta* Linnæus.

**957. Lemur varius** I. Geoffroy.

*Lemur macaco* Schreb., Säugth., 1, 1775, p. 142, pl. XL B. (nec Linn.)

*Lemur varius* I. Geoff., Leçons Mamm. & Cat. Primates, 1851, p. 71.

*Varecia varia* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 70.

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\**Indri!* E. Geoffroy, 1796, & *Lichanotus* Illiger, 1811, contained the same species, *indris* and *laniger*, but which however were not co-generic. *Indris* was taken as the type of Geoffroy's genus *Indri!* thus leaving only *laniger* for Illiger's genus *Lichanotus*, and therefore its type, the genus antedating *Avahi* Jourdan, usually employed for *laniger*, by 23 years. Also, from another point of view, following the principle that the first specimen cited by an author after a new genus, becomes its type, the same result is attained, *indris* called *brevicauda* becomes the type of *Indri!* and *laniger* of *Lichanotus*, reducing *Avahi* to the rank of a synonym.

## RUFFED LEMUR.

1. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.
- 2-3. Adult — P. Madagascar. E. Gerrard & Sons.

958. *Lemur mongos* Linnæus.

*Lemur mongos* Linn., Syst. Nat., I, 1766, p. 44.

*Lemur albimanus* E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 160.

*Lemur collaris* E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 161.

*Lemur anjuanensis* Peters, Reise nach Mossamb., Zool., I, 1852, p. 21.

*Lemur nigrifrons* Milne-Edw. & Grandid., Hist. Nat. Madag., Mamm., Atlas, II, 1890, pls. CXXXV, XLIII.

## MUNGOOSE LEMUR.

1. Adult — P. Madagascar. E. Gerrard & Sons.

a. *Lemur mongos albifrons* (E. Geoffroy).

*Lemur albifrons* E. Geoff., Ann. Mus. Hist. Nat. Paris, 1812, p. 160.

*Prosimia albifrons* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 73.

## WHITE-FRONTED LEMUR.

1. Adult — P. Madagascar. E. Gerrard & Sons.

b. *Lemur mongos rufifrons* (Bennett).

*Lemur rufifrons* Bennett, Proc. Zool. Soc., 1833, p. 106.

*Prosimia rufifrons* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 74.

*Lemur mongos* var. *rufifrons* Milne-Edw. & Grandid., Hist. Nat. Madag., Mamm., Atlas, II, 1890, pls. CXXXVIII, CXXXIX, CXLIV.

## RED-FRONTED LEMUR.

- 1-4. Adult — P. S. W. Madagascar. E. Gerrard & Sons.

959. *Lemur melanocephala* (Gray).

*Prosimia melanocephala* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 73.

## BLACK-HEADED LEMUR.

- 1-3. Adult — P. Madagascar. E. Gerrard & Sons.

960. *Lemur rubriventer* I. Geoffroy.

*Lemur rubriventer* I. Geoff., Compt. Rend., xxxi, 1850, p. 876.

*Lemur flaviventer* I. Geoff., Compt. Rend., xxxi, 1850, p. 876.

*Prosimia rufipes* J. E. Gray, Ann. Mag. Nat. Hist., 4th Ser., VII, 1871, p. 339.

## RED-BELLIED LEMUR.

1. Adult — P. Madagascar. E. Gerrard & Sons.
2. Adult ♂ P. Madagascar. C. I. Forsyth-Major.



FIG. LXXVI. LEMUR CATTÆ. RING-TAILED LEMUR.

961. *Lemur catta* Linnæus.

*Lemur catta* Linn., Syst. Nat., I, 1758, p. 30; I, 1766, p. 45. Milne-Edw. & Grandid., Hist. Nat. Madag., Mamm., Atlas, II, 1890, pls. CLXVII-CLXXII.

**RING-TAILED LEMUR.**

1. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.



FIG. LXXVII. HAPALOLEMUR GRISEUS. GRAY LEMUR.

Genus 312. **Hapalolemur.**

**Hapalemur** (sic) I. Geoff., L'Institut, 19me Ann., No. 929, 1851, p. 341, footnote. Type "*le Maki gris et des auteurs*" = *Lemur griseus* E. Geoffroy.



*Lepilemur!* I. Geoff., L'Institut, 19me Ann., No. 929, 1851, p. 341, footnote.

*Prolemur* Gray, Proc. Zool. Soc., 1870, p. 828, pl. LII, figs. 1-4.

**962. Hapalolemur griseus** (E. Geoffroy).

*Lemur griseus* E. Geoff., Mag. Encyclop., 1, 1796, p. 46.

*Cheirogaleus griseus* Van d. Hoef., Tijd. Nat. Gesch. en Physiol., 1844, p. 38, pl. 1, fig. 1.

*Hapalemur! griseus* I. Geoff., Leçons Mamm. & Cat. Primates, 1851, p. 74. Milne-Edw. & Grandid., Hist. Nat. Madag., Mamm., Atlas, II, 1890, pl. CXXII D, fig. 2.

*Hapalolemur griseus* Sclat., Proc. Zool. Soc., 1863, p. 161.

*Hapalemur! simus* Gray, Proc. Zool. Soc., 1870, p. 828, pl. 52.

GRAY LEMUR.

1. Juv. — P. Madagascar. C. I. Forsyth-Major.

2. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 313. **Lepidolemur.**

**Lepilemur** (sic) I. Geoff., Cat. Méth. Mamm. Mus. Hist. Nat. Paris, 1e part., 1851, p. 75. Type *Lepilemur! mustelinus* I. Geoffroy.

*Lepidolemur* Peters, Monatsb. K. Preuss. Akad. Wiss. Berlin, 1874, p. 690.

**963. Lepidolemur mustelinus** I. Geoffroy.

*Lepilemur! mustelinus* I. Geoff., Leçons Mamm. & Cat. Primates, 1851, p. 76.

*Lepilemur! dorsalis* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 135.

WEASEL LEMUR.

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

**964. Lepidolemur microdon** Forsyth-Major.

*Lepidolemur microdon* F.-Major, in Forbes, Handb. Primates 1, 1894, p. 88.

SMALL-TOOTHED LEMUR.

1. Adult ♂ P. Madagascar. C. I. Forsyth-Major.

Subfamily III. **Galaginæ.**Genus 314. **Chirogaleus.**

**Cheirogaleus!** E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 172, pl. 10. Type *Cheirogaleus! major* Geoffroy.

*Myspithecus* F. Cuv., "Hist. Nat. Mamm., éd. 4, 1833."

**965. Chirogaleus melanotis** Forsyth-Major.

*Chirogale melanotis* F.-Major, Novit. Zool., I, 1894, p. 25, pl. II, fig. 10.

*Cheirogaleus! typicus* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, pp. 78, 133. *Id.* Proc. Zoöl. Soc., 1872, p. 855, pl. LXXI.

BLACK-EARED LEMUR.

1. Juv. ♂ P. Madagascar. C. I. Forsyth-Major.

Genus 315. **Microcebus.**

**Microcebus** E. Geoff., Cours Hist. Nat. Mamm., 11me Leçon, 1834, p. 24. Type *Lemur pusillus* E. Geoffroy.

*Mirza* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 131.

*Phaner* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 132.

*Azema* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 134.

*Murilemur* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 135.

**966. Microcebus murinus** (Miller).

*Lemur murinus* Miller, Var Subj. Nat. Hist., 1777, pl. XIII.

*Microcebus murinus* Waterh. Cat. Mus. Zoöl. Soc., 1838, p. 12, No. 90.

*Cheirogaleus! smithii* Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 257.

*Galago minor* Gray, Ann. Mag. Nat. Hist., 1st Ser., x, 1842, p. 257.

*Lepilemur! murinus* Gray, Proc. Zoöl. Soc., 1863, p. 143.

*Murilemur murinus* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 135.

MURINE MOUSE-LEMUR.

1. Adult ♀ P. Madagascar. C. I. Forsyth-Major.

Genus 316. **Galago.**

**Galago** E. Geoff., Mag. Encyclop., 2me Ann., I, 1796, p. 49, pl. 1.

Type *Galago senegalensis* Geoffroy = *Lemur galago* Schreber.

*Otolicnus* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 74.

*Galagoides* A. Smith, S. Afr. Quart. Journ., 2d Ser., II, 1833, No. 1, p. 32.

*Hemigalago* Dahlbom, Zool. Stud., I, Tredje Häftet, 1857, p. 224, Tab. x.

*Otolemur* Coquerel, Rev. Mag. Zool., 2me Sér., XI, 1859, p. 458, pls. 17, 18, fig. 1.

*Otogale* Gray, Proc. Zool. Soc., 1863, p. 139, figs. 1-2.

*Callotus* Gray, Proc. Zool. Soc., 1863, p. 145.

Subgenus A. **Otolemur.****967. Galago galago** (Schreber).

*Lemur galago* Schreb., Säugth., I, 1775, pl. 38 B.

*Galago senegalensis* E. Geoff., Mag. Encyclop., I, 1796, p. 49.

*Galagoides senegalensis* A. Smith, S. Afr. Quart. Jour., II, 1833, p. 32.

## GALAGO.

- I. Adult — P. South Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subgenus B. **Galagoides.****968. Galago demidoffi** Fischer.

*Galago demidoffi* Fisch., Act. Soc. Nat. Mosc., I, 1806, p. 24, fig 1, juv.

## DEMIDOFF'S GALAGO.

- I. Adult — P. Batuga, Cameroons, West Africa. C. W. McCleary.

Subfamily IV. **Nycticebinæ.**Genus 317. **Nycticebus.**

**Nycticebus** E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 163. Type *Nycticebus bengalensis* E. Geoffroy = *Tardigradus coucang* Boddaert.

? *Bradicebus* Cuv. & Geoff., Mag. Encyclop., No. VI, 1795. (nec descript.)

**969. Nycticebus coucang** (Boddaert).*Tardigradus coucang* Bodd., Elench. Anim., I, 1783, p. 67.*Nycticebus bengalensis* E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 164.*Nycticebus cinereus* A. Milne-Edw., Nouv. Arch. Mus. Bull., III, 1867, p. 11.

FIG. LXXVIII. NYCTICEBUS COUCANG. SLOW LORIS.

**SLOW LORIS.**

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.
2. Adult ♀ P. Borneo. Menage Scient. Exped. Bourns & Worcester.

**Family II. Tarsiidae.****Genue 318. Tarsius.****Tarsius** Storr, Prodr. Meth. Mamm., 1780, p. 33, Tab. A. Type *Lemur tarsius* Erxleben.*Macrotarsus* Link, Beytr. Naturg., I, Pt. II, 1795, pp. 51, 65-66.



*Rabiennus* Gray, Lond. Med. Repos., xv, No. 88, 1821, p. 299.

*Cephalopachus* Swains., Nat. Hist. & Class. Quad., 1835, p. 352.

*Hypsicebus* Less., Spec. Mamm., 1840, pp. 207, 253-254.

**970. *Tarsius tarsius* (Erxleben).**

*Lemur tarsius* Erxl., Syst. Reg. Anim., 1777, p. 71.

*Lemur spectrum* Pall., Nov. Spec. Quad. Glir. Ord., 1778, p. 275, (note).

*Macrotarsus buffoni* Link, Beytr. Naturg., I, Pt. II, 1795, p. 61.

**WOOLLY TARSIER.**

1. Adult — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.



FIG. LXXIX. *TARSIIUS TARSIIUS*. WOOLLY TARSIER.

Family III. **Daubentoniidæ.**Genus 319. **Daubentonia.****Daubentonia** E. Geoff., Décad. Philos. et Litt., 1795, p. 195.Type *Sciurus madagascariensis* Gmelin.*Cheiomys* (sic) G. Cuv., Leçons Anat. Comp., I, 1800.

FIG. LXXX. DAUBENTONIA MADAGASCARIENSIS. AYE-AYE.

**971. Daubentonia madagascariensis** (Gmelin).*Sciurus madagascariensis* Gmel., Syst. Nat., I, 1788, p. 152, No. 29.*Daubentonia madagascariensis* E. Geoff., Décad. Philos. et Litt., IV, 1795, p. 195.*Cheiomys! madagascariensis* Geoff., Cat. Mamm. Mus. Hist. Nat. Paris, 1803, p. 181.**AYE-AYE.**

1. Adult — P. Madagascar. Ward's Nat. Scien. Establ., Rochester, N. Y.

## SUBORDER II. ANTHROPOIDEA.

### Family IV. **Callitrichidæ. Marmosets.**

#### Genus 320. **Callithrix.**

**Callithrix** Erxl., Syst. Regn. Anim., 1777, p. 55. Type *Simia jacchus* Linnæus.

*Sagoinus* Kerr, Anim. Kingd., Mamm., 1, 1792, p. 80.

*Sagouin!* Lacépède., Tabl. Mamm., 1799, p. 4.

*Hapale* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 71.

*Jacchus* E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 118.

#### 972. **Callithrix jacchus** (Linnæus).

*Simia jacchus* Linn., Syst. Nat., 1, 1758, p. 27; 1, 1766, p. 40.

*Jacchus penicillatus* E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 119.

*Jacchus vulgaris* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 63.

#### BLACK-EARED MARMOSET.

1-6. Group — P. S. E. Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.

#### 973. **Callithrix leucopus** (Günther).

*Hapale leucopus* Günth., Proc. Zool. Soc., 1876, p. 743, pl. LXXII.

#### WHITE-FOOTED MARMOSET.

1. Adult — P. Meddellen, Colombia. Ward's Nat. Scien. Establ., Rochester, N. Y.

#### Genus 321. **Ædipomidas.**

**Ædipomidas** Reichenb., Vollst. Naturg. Affen, 1862, p. 5, pl. II, figs. 18-20. Type *Simia ædipus* Linnæus.

*Midas* Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 120. (nec Latreille, 1796, Diptera.)

*Ædipus* Less., Spec. Mamm., 1840, pp. 184, 197-200. (nec Tschudi, 1838, Amphib.)

**974. *Cedipomidas illigeri* (Pucheran).**

*Midas illigeri* Pucher., Rev. Mag. Zool., 1845, p. 336. Gray, Cat. Monkeys, Lemurs and Fruit-eating Bats Brit. Mus., 1870, p. 67.

*Midas devillei* Sclat., Proc. Zool. Soc., 1871, p. 220, pl. XIII. (nec Geoff.)

**ILLIGER'S MARMOSET.**

1. Adult — P. Ecuador. Ward's Nat. Scien. Establ., Rochester, N. Y.

**Family V. *Cebidæ*. Prehensile-tailed Monkeys.****Subfamily I. *Alouattinæ*.****Genus 322. *Alouatta*. Howling Monkeys.**

*Alouatta* Lacépède, Tabl. Div. Sous-div. Ordres et Genres Mamm., 1799, p. 4. Type *Simia belzebul* Linnæus.

*Mycetes* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 70.

**975. *Alouatta ursina* (Humboldt & Bonpland).**

*Simia ursina* Humb. & Bonp., Obs. Zool., 1, 1811, pl. xxx.

*Stentor fuscus* E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 108.

*Mycetes seniculus* Wagn., Schreb. Säugth., Suppl., 1, 1840, p. 179.

*Mycetes bicolor* Gray, Ann. Mag. Nat. Hist., XVI, 1845, p. 214.

**THE ARAQUATO.**

1-5. Adult — P. La Plata. Ward's Nat. Scien. Establ., Rochester, N. Y. Mounted group.

**976. *Alouatta seniculus* (Linnæus).**

*Simia senicula* Linn., Syst. Nat., 1, 1766, p. 37.

*Simia ursina* Humb. & Bonp., Obs. Zool., 1, 1811, p. 354, desc. (nec pl.)

*Mycetes stramineus* Spix, Sim. et Vespert. Bras., 1823, p. 45, pl. 31.

*Mycetes chrysurus* Geoff., Mém. Mus. Hist. Nat. Paris, XVII, 1829, p. 66.

*Mycetes auratus* Gray, Ann. Mag. Nat. Hist., XVI, 1845, p. 219.

*Mycetes laniger* Gray, Ann. Mag. Nat. Hist., XVI, 1845, p. 220.

**RED HOWLER.**

1-3. Adult — P. Bonda, Colombia, South America. H. H. Smith.



977. *Alouatta palliata* (Gray).

*Myctes palliatus* Gray, Proc. Zool. Soc., 1848, p. 138, pl. vi.

*Alouatta palliata* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 726, fig. cxxxviii. Zool. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 533. Zool. Ser.



FIG. LXXXI. *ALOUATTA PALLIATA*. MANTLED HOWLER.

## MANTLED HOWLER.

1. Adult ♂ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
- 2-6. Adult ♀ P. Boquete, Chiriqui, Costa Rica. J. H. Batty.
7. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

a. *Alouatta palliata mexicana* Merriam.

*Alouatta palliata mexicana* Merr., Proc. Biol. Soc. Wash., xv, 1902, p. 67. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 727. Zool. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 533. Zool. Ser.

## MEXICAN HOWLER.

1. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
- 2-5. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
6. Juv. ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

*b. Alouatta palliata coibensis* Thomas.

*Alouatta palliata coibensis* Thos., Novitat. Zool., ix, 1902, p. 135.  
 Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., iv,  
 Pt. II, 1904, p. 727. Zool. Ser. *Id.* Check-L. Mamm. N. Amer.  
 Cont. & W. Indies, F. C. M. Pub., vi, 1905, p. 533. Zool. Ser.

## COIBA ISLAND HOWLER.

1. Adult ♀ Topotype. P. Coiba Island, Panama. J. H. Batty.

Subfamily II. **Pitheciinæ.**Genus 323. **Pithecia.**

**Pithecia** Desm., Nouv. Dict. Hist. Nat., xxiv, 1804, p. 8. Type

*Simia pithecia* Linnæus.

*Chiropotes* Less., Spec. Mamm., 1840, p. 178.

**978. Pithecia pithecia** (Linnæus).

*Simia pithecia* Linn., Syst. Nat., i, 1766, p. 40.

*Simia leucocephala* Audeb., Hist. Nat. Singes, Fam. vi, Sect. i,  
 1797, p. 9, fig. 2.

*Pithecia leucocephala* Geoff., Ann. Mus. Hist. Nat. Paris, xix, 1812,  
 p. 117.

*Pithecia capillamentosa* Spix, Sim. et Vespert. Bras., 1823, p. 16,  
 pl. xi.

*Pithecia nocturna* Schleg., Mus. Pays-B., xii, 1876, p. 217. (Part.)

## BLACK YARKEE.

1. Adult—P. Guiana. Ward's Nat. Scien. Establ., Rochester, N. Y.

Subfamily III. **Aotinæ. Squirrel Monkeys.**Genus 324. **Callicebus.**

**Callicebus** Thos., Ann. Mag. Nat. Hist., 7th Ser., xii, 1903, p. 457.

Type *Callithrix personatus* Geoffroy.



FIG. LXXXII. PITHECIA PITHECIA. BLACK YARKEE.

*Callithrix* E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 112.  
(nec Erxleben, 1777.)

**979. *Callicebus cuprea* (Spix).**

*Callithrix cuprea* Spix, Sim. et Vespert. Bras., 1823, p. 23,  
pl. XVII.

*Callithrix discolor* I. Geoff., Compt. Rend. Acad. Scien., XXVII,  
1848, p. 498.

## COPPER-COLORED MONKEY.

1. Adult — P. Brazil. Ward's Nat. Scien. Establ., Rochester,  
N. Y.



FIG. LXXXIII. SAIMIRI CÆRSTEDI. CÆRSTED'S TITI MONKEY.

Genus 325. **Saimiri.**

**Saimiri** Voigt, Cuvier's Thierreich, 1, 1831, p. 95. Type *Simia sciurea* Linnæus.

*Chrysothrix* Kaup, Das Thierr., 1, 1835, p. 50, fig.

*Pseudoctonus* Less., Spec. Mamm., 1840, pp. 116, 157-160.

*Saimiris* Geoff., Compt. Rend. Paris, xvi, 1843, p. 1151.

980. **Saimiri sciurea** (Linnæus).

*Simia sciurea* Linn., Syst. Nat., 1, 1758, p. 19; 1, 1766, p. 43.

*Saimiri sciureus* I. Geoff., Leçon Mamm., 1835, p. 19.

*Chrysothrix sciurea* Kaup, Das Thierr., 1, 1835, p. 50.



## TEETEE.

1. Adult — P. Brazil. Ward's Nat. Scien. Establ., Rochester, N. Y.

981. *Saimiri ærstedii* (Reinhardt).

*Chrysothrix sciurea* Sclat., Nat. Hist. Rev., 1861, p. 510. (nec Linn.)

*Chrysothrix ærstedii* Reinh., Vidensk. Medd. Nat. For. K. öbenh., 1872, p. 157, pl. III.

*Saimiris entomophaga* Sclat., Proc. Zoöl. Soc., 1872, p. 3. (nec d'Orbigny.)

*Saimiri ærstedii* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 731, figs. 166, CXL. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 534. Zoöl. Ser.

## ÆRSTED'S TITI MONKEY.

1-4. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

5-6. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

Subfamily IV. **Cebinae.**Genus 326. **Ateles. Spider Monkeys.**

**Ateles** E. Geoff., Ann. Mus. Hist. Nat. Paris, VII, 1806, p. 262. Type *Simia paniscus* Linnæus.

*Atelocheirus* E. Geoff., Ann. Mus. Hist. Nat. Paris, VII, 1806, p. 272

*Paniscus* Rafin., Analyse de la Nature, 1815, p. 53. (nec Schrank, 1802, Hymenopt.)

982. *Ateles vellerosus* Gray.

*Ateles vellerosus* Gray, Proc. Zoöl. Soc., 1865, p. 733. Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 733,

fig. CXL1, pl. LXVIII. Zoöl. Ser. *Id.* Check-L. Mamm. N. Amer.

Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 534. Zoöl. Ser.

*Ateles fuliginosus* Schleg., Mus. Pays-Bas, III, 1876, p. 179. (nec Kuhl.)

*Ateles pan* Schleg., Mus. Pays-Bas, III, 1876, p. 180.

## MEXICAN SPIDER MONKEY.

1. Adult — P. ———? Ward's Nat. Scien. Establ., Rochester, N. Y.

2-5. Adult ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

6. Juv. ♂ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.



FIG. LXXXIV. ATELES VELLEROSUS. MEXICAN SPIDER MONKEY.

7. Adult ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.
8. Juv. ♀ Coll. Achotal, State of Vera Cruz, Mexico. Heller & Barber.

Genus 327. **Cebus.**

**Cebus** Erxl., Syst. Regn. Anim., Mamm., 1777, pp. 44-54. Type *Simia capucina* Linnæus.

*Calyptrocebus* Reichenb., Vollst. Naturg. Affen, 1862, p. 55, pls. VI-VII, figs.

*Pseudocebus* Reichenb., Vollst. Naturg. Affen, 1862, p. 55, pls. VI-VII, figs. 83, 84, 89, 90, 108.

*Otocebus* Reichenb., Vollst. Naturg. Affen, 1862, p. 55, pls. VII-VIII, figs.

**983. Cebus flavus** E. Geoffroy.

*Cebus flavus* E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 112.

*Cebus pallidus* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats  
Brit. Mus., 1870, p. 49, No. 3.

PALE CAPUCHIN.

- 1-3. Adult ♂ P. Caicara, Venezuela. G. K. Cherrie.
4. Juv. ♂ P. Caicara, Venezuela. G. K. Cherrie.
5. Adult ♀ P. Caicara, Venezuela. G. K. Cherrie.
6. Adult ♀ P. Alta Gracia, Rio Oronoco, Venezuela. G. K. Cherrie.

984. *Cebus capucinus* (Linnæus).

*Simia capucina* Linn., Syst. Nat., 1, 1758, p. 19; 1, 1766, p. 42.

*Cebus nigrivittatus* Wagn., Abhandl. Akad. München, v, 1848,  
p. 420.

*Cebus olivaceus* Schomb., Reis. Brit. Guiana, 11, 1848, p. 246.

*Cebus castaneus* I. Geoff., Cat. Prim., 1851, p. 46.

*Cebus versicolor* Puch., Rev. Mag. Zool., 1857, p. 346.

*Cebus annallatus* Gray, Proc. Zool. Soc., 1865, p. 827, fig. 3.

CAPUCHIN.

- 1-3. Adult — P. Bonda, Colombia, South America. H. H. Smith.
4. Adult ♂ Exch. Central Park Menagerie. Am. Mus. Nat. Hist. N. Y.



FIG. LXXXV. *CEBUS HYPOLEUCUS*. WHITE-THROATED CAPUCHIN.



**985. *Cebus hypoleucus* (Humboldt).**

*Simia hypoleuca* Humb., Recueil Obs. Zool. Anat. Comp., I, 1811, p. 337.

*Cebus hypoleucus* Elliot, Mamm. Middle Amer. & W. Indies, F. C. M. Pub., IV, Pt. II, 1904, p. 736, figs. 167, cxlii. Zool. Ser. Id. Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M. Pub., VI, 1905, p. 536. Zool. Ser.

WHITE-THROATED CAPUCHIN. *Mono carablanca*.

1. Adult ♂ Exch. Central Park Menagerie. Am. Mus. Nat. Hist. N. Y.
2. Adult — Exch. Central Park Menagerie. Am. Mus. Nat. Hist. N. Y.
- 3-4. Adult ♂ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.
- 5-8. Adult ♀ P. Boqueron, Chiriqui, Costa Rica. J. H. Batty.

**Family VI. *Cercopithecidae*.****Subfamily I. *Cercopithecinae*.****Genus 328. *Papio*.**

**Papio** Erxl., Syst. Regn. Anim., 1777, p. 15. Type *Papio sphinx* Erxleben.

*Cynocephalus* Cuv. & Geoff., Mag. Encyclop., III, 1795, p. 462. (nec Boddaert, 1768, Insectiv.)

*Mandril* Voigt, Cuvier's Thierreich, I, 1831, p. 88.

*Mormon* Wagn., Schreb. Säugth., Suppl., I, 1839, p. 164.

*Hamadryas* Less., Spec. Mamm., 1840, p. 107. (nec Hübner, 1806, Coleop.)

*Choiropithecus* Reich., Vollst. Naturg. Affen, 1862, p. 151.

*Chæropithecus* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, pp. 5, 35.

**986. *Papio sphinx* (Linnæus).**

*Simia sphinx* Linn., Syst. Nat., I, 1758, p. 25; I, 1766, p. 35.

*Cynocephalus papio* Desm., Mamm., 1820, p. 69.

*Cynocephalus choras* Ogilby, Proc. Zool. Soc., 1843, p. 12.

*Papio rubescens* Temm., Esquis. Zool., 1853, p. 39.

*Cynocephalus sphinx* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 35.

**THE PAPION.**

1. Adult — P. West Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.



**987. Papio maimon** (Linnæus).

*Simia maimon* Linn., Syst. Nat., I, 1766, p. 35.

*Papio mormon* E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812,  
p. 104, No. 7.

*Mormon maimon* Gray, Cat. Monkeys, Lemurs & Fruit-eating  
Bats Brit. Mus., 1870, p. 36.



FIG. LXXXVI. PAPIO MAIMON. MANDRILL.

## MANDRILL.

1. Adult ♂ P. West Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

988. *Papio leucophæus* (F. Cuvier).

*Cynocephalus leucophæus* F. Cuv., Ann. Mus. Hist. Nat. Paris, ix, 1807, p. 477, tab. 37.

*Chæropithecus leucophæus* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 35.



FIG. LXXXVII. PAPIO LEUCOPHÆUS. THE DRILL.

## THE DRILL.

1. Adult — Pres. West Africa. C. P. Galetti.

**989. *Papio hamadryas* (Linnæus).**

*Simia hamadryas* Linn., Syst. Nat., 1, 1758, p. 27; 1, 1766, p. 36.

*Cynocephalus wagleri* Agass., Isis, 1828, p. 861.

*Cynocephalus hamadryas* F. Cuv., Hist. Nat. Mamm., 2e Ed., 1833, p. 129, pl. 46.

*Hamadryas choeropithecus* Less., Spec. Mamm., 1840, pp. 107-111.

*Hamadryas ægyptiaca* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 34.



FIG. LXXXVIII. PAPIO HAMADRYAS. THE TARTARIN.

## THE TARTARIN.

1. Adult ♂ Coll. Sheik Pass, Golis Range, Somaliland, East Africa. D. G. Elliot.

990. *Papio porcarius* (Brünnich).

*Simia porcaria* Brunn., Dyr. Hist. Univ. Nat.-Theat., 1782, p. 13.

Bodd., Naturf., xxii, 1787, p. 17, figs. 1, 2.

*Simia sphingiola* Herm., Obs. Zool., 1, 1804, p. 2.

*Cynocephalus porcarius* F. Cuv., Hist. Nat. Mamm., 2e Ed., 1833, p. 132, pl. 47.

## THE CHACMA.

1. Adult — P. S. Africa. Ward's Nat. Scien. Establ., Rochester, N. Y.

991. *Papio doguera* (Pucheran & Schimper).

*Cynocephalus babouin* Rüpp., Neue Wirbelth., 1, 1835-40, p. 7. (Part.)

*Cynocephalus doguera* Puch. & Schimp., Rev. & Mag. Zool., 1856, p. 96; 1857, p. 57.

*Cynocephalus porcarius* Fitzing. & Heugl., Syst. Uebers., 1866, p. 6.

## ABYSSINIAN CHACMA.

1. Adult ♂ P. Managasha, Abyssinia. P. H. G. Powell-Cotton.

Genus 329. **Theropithecus.**

**Theropithecus** I. Geoff., Archiv. Mus. Hist. Nat. Paris, II, 1843, p. 576. Type *Macacus gelada* Rüppell.

*Gelada* Gray, List Spec. Mamm. Brit. Mus., 1843, pp. xvii, 9.

992. *Theropithecus obscurus* Heuglin.

*Theropithecus obscurus* Heugl., Nov. Act. Acad. Cæs. Leop.-Carol., 1863, p. 30.

## DARK GELADA.

1. Adult ♂ P. Managasha, Abyssinia. P. H. G. Powell-Cotton.

Genus 330. **Macacus.**

**Macaca** (sic) Lacépède., Tabl. Mamm., 1799, p. 4. Type *Simia inuus* Linnæus.

*Inuus* Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 100.

*Magus* Less., Man. Mamm., 1827, p. 43.

*Nemestrinus* Reichenb., Vollst. Naturg. Affen, 1862, p. 139, pl. xxiv, figs. 349-353, 359-363. (nec Latreille, 1802, Diptera.)



**993. *Macacus lasiotis* Gray.**

*Macacus lasiotis* Gray, Proc. Zool. Soc., 1868, p. 61, pl. vi.

**HAIRY-EARED MACACQUE.**

1. Adult — P. Szechuen, China. Ward's Nat. Scien. Establ., Rochester, N. Y.

**994. *Macacus fascicularis* (Raffles).**

*Simia cynomolgus* Schreb., Säugth., 1, 1775, p. 91, pl. XIII. (nec Linn.)

*Simia fascicularis* Raffles, Trans. Linn. Soc., XIII, 1821, p. 246.

*Macacus aureus* I. Geoff., Voy. Bélanger, Zool., 1834, p. 58.

*Macacus philippinensis* I. Geoff., Cat. Primates, 1851, p. 29.

*Inuus! palpebrosus* Wagn., Schreb. Säugth., Suppl., v., 1855, p. 54.

*Macacus fur* Slack, Proc. Acad. Nat. Scien. Phil., 1867, p. 36, pl.

*Macacus cristatus* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 30.

*Macacus assamensis* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, p. 31.

**THE KRA.**

1. Adult — P. Panay, Philippines. Menage Scientific Exped. Bourns & Worcester.

**995. *Macacus nemestrinus* (Linnæus).**

*Simia nemestrinus* Linn., Syst. Nat., 1, 1766, p. 35.

*Inuus! nemestrinus* E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 101.

*Simia carpolegos* Raffles, Trans. Linn. Soc., XIII, 1821, p. 243.

*Macacus nemestrinus* F. Cuv., Hist. Nat. Mamm., 2e Ed., 1833, p. 95, pl. 33; p. 99, pl. 34.

**THE BRUH.**

1. Adult — Pres. Sumatra. C. P. Galetti.

**996. *Macacus rhesus* (Audebert).**

*Simia rhesus* Audeb., Hist. Nat. Singes, 2e Fam., 1797, p. 5, pl. 1.

*Simia erythræa* Schreb., Shaw's Gen. Zool., 1, 1800, p. 33.

*Macacus (Pithecia) oinops* Hodgs., Jour. Asiat. Soc. Beng., 1840, IX, p. 1212.

*Macacus rhesus* Anders., Anat. & Zool. Res., 1878, p. 55.

**BENGAL MONKEY.**

- 1-2. Adult — Exch. Central Park Menagerie. Am. Mus. Nat. Hist. N. Y.

Genus 331. **Cercocebus.**

**Cercocebus** Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 97.  
Type *Cercocebus fuliginosus* E. Geoffroy.

**997. Cercocebus fuliginosus** Geoffroy.

*Simia aethiops* Audeb., Hist. Nat. Singes, 4me Fam., 1797, pl. 9.  
(nec Linn.)

*Cercocebus fuliginosus* E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX,  
1812, p. 97.

*Cercopithecus fuliginosus* F. Cuv., Hist. Nat. Mamm., 2e Ed., 1833,  
p. 73, pl. 25.

**SOOTY MANGABEY.**

1. Adult ♀ Exch. Central Park Menagerie. Am. Mus. Nat.  
Hist. N. Y.
2. Adult ♀ Pres. Barnum & Bailey Menagerie.

Genus 332. **Cercopithecus.**

**Cercopithecus** Gronov., Zooph., I, 1763, p. 5. Brunn., Zool.  
Fund., 1772, p. 34. Erxl., Syst. Reg. Anim., 1777, p. 22.  
Type *Cercopithecus mona* Schreber.

*Cebus* Rafin., Analyse de la Nature, 1815, p. 53. (nec. Erxl.)

*Monichus* Oken, Lehrb. Naturg., 3 ter Theil, Zool., 2te Abth., 1816,  
pp. XI, 1208-1211.

*Aethiops* Martin, Gen. Introd. Nat. Hist. Mamm. Anim., 1841, p. 506.

*Miopithecus* I. Geoff., Compt. Rend. Paris, XV, 1842, p. 720.

*Diademina* Reich., Vollst. Naturg. Affen, 1862, p. 107, pls. XVIII,  
XIX, figs. 262-270. (nec. Schum., 1817, Crust.)

*Mona* Reich., Vollst. Naturg. Affen, 1862, p. 109, pls. XIX-XX,  
figs. 271-282.

*Diana* Trouess., Rev. Mag. Zool., 3me Sér., VI, 1878, p. 124. (nec  
Risso, 1826, Pisces.)

*Rhinostictus* Trouess., Cat. Mamm. Viv. et Foss., I, 1897, p. 17.

*Erythrocebus* Trouess., Cat. Mamm. Viv. et Foss., I, 1897, p. 19.

*Otopithecus* Trouess., Cat. Mamm. Viv. et Foss., I, 1897, p. 22.

*Pogonocebus* Trouess., Cat. Mamm. Viv. et Foss., Suppl., Pt. I,  
1904, p. 14.

Subgenus A. **Cercopithecus.****998. Cercopithecus callitrichus** I. Geoffroy.

*Le Callitriche* F. Cuv., Nat. Hist. Mamm., I, 1824, pl. XXI.

- Cercopithecus callitrichus* I. Geoff., Cat. Primates, 1851, p. 23.  
 Elliot, Check-L. Mamm. N. Amer. Cont. & W. Indies, F. C. M.  
 Pub., VI, 1905, p. 536. Zoöl. Ser.

## GREEN MONKEY.

1. Adult ♀ Exch. Central Park Menagerie, N. Y. Am. Mus. Nat. Hist. N. Y.
2. Juv. ♀ Exch. Central Park Menagerie, N. Y. Am. Mus. Nat. Hist. N. Y.

Subgenus B. *Rhinostictus*.999. *Cercopithecus cephus* (Linnæus).

- Simia cephus* Linn., Syst. Nat., I, 1758, p. 17; I, 1766, p. 39.  
*Moustac* F. Cuv., Hist. Nat. Mamm., I, 1821, tab. 19.  
*Cercopithecus cephus* Wagn., Schreb. Säugth., Suppl., v, 1855,  
 p. 49. Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit.  
 Mus., 1870, p. 20.

## MOUSTACHE MONKEY.

1. Adult ♂ P. Benito River, West Africa. G. L. Bates.

1000. *Cercopithecus nictitans* (Linnæus).

- Simia nictitans* Linn., Syst. Nat., I, 1766, p. 40.  
*Cercopithecus nictitans* Erxl., Syst. Regn. Anim., 1777, p. 35.  
*Lasiopyga nictitans* Illig., Prodr. Syst. Mamm. et Av., 1811, p. 68.  
*Cercopithecus martini* Waterh., Proc. Zoöl. Soc., 1838, p. 58; 1841,  
 p. 71.

## THE HOCHUR.

1. Adult ♂ P. Benito River, West Africa. G. L. Bates.

Subgenus C. *Monichus*.1001. *Cercopithecus neglectus* Schlegel.

- Cercopithecus neglectus* Schleg., Mus. Pays-Bas, XII, 1876, p. 70.  
*Cercopithecus brazzae* A. Milne-Edw., Rev. Scien., XII, 1886, p. 15.  
 Sclat., Proc. Zoöl. Soc., 1893, p. 255.

## BRAZZA'S MONKEY.

1. Adult — Exch. "Haut Oubangui," Africa. Nat. Hist. Mus. Paris. Viancin.

Subgenus D. *Otopithecus*.1002. *Cercopithecus erxlebeni* Pucheran.

- Cercopithecus erxlebeni* Pucher., Rev. Mag. Zool., 1856, p. 96.

Gray, Proc. Zool. Soc., 1868, p. 182. Sclat., Proc. Zool. Soc., 1871, p. 36; 1893, p. 254.

ERXLEBEN'S MONKEY.

1. Adult ♂ P. Efulen Bulu Country, Cameroon, W. Africa. G. L. Bates.



FIG. LXXXIX. NASALIS LARVATUS. PROBOSCIS MONKEY.

Subfamily II. **Presbytinae.**

Genus 333. **Nasalis.**

**Nasalis** Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 90. Type *Cercopithecus larvatus* Wurm.



*Rhinalazon* Glog., Hand-u. Hilfsb. Naturg., I, 1841, pp. xxvii, 36.  
*Rhynchopithecus* Dahlb., Zool. Stud., I, Andra Häftet, 1857, pp. 83,  
 91-94, Tab. iv.

**1003. *Nasalis larvatus* (Wurmb).**

*Cercopithecus larvatus* Wurmb, Mag. Neuste Phys. u. Nat., II, 1784,  
 p. 7. E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 12.  
*Simia nasica* F. Cuv., Dict. Scien. Nat., XX, 1821, p. 32.  
*Nasalis recurvus* Vig. & Horsf., Zool. Jour., IV, 1828-29, p. 109,  
 fig. juv.  
*Rhynchopithecus larvatus* Dahlb., Zool., Stud. I, Andra Häftet,  
 1857, p. 93.

**PROBOSCIS MONKEY.**

- 1-4. Adult ♂ Group. Pres. Borneo. Martin A. Ryerson. Bourns & Worcester.
- 5-6. Adult ♀ Pres. Borneo. Martin A. Ryerson. Bourns & Worcester.
7. Juv. ♀ Pres. Borneo. Martin A. Ryerson. Bourns & Worcester.
8. Juv. — P. Borneo. Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 334. \***Presbytis.**

**Presbytis** Esch., Kotz. Entd.-Reise Süd See u. n. Ber.-Strass., III, 1821, p. 196, pl. Type *Presbytis mitrata* Eschscholtz.  
*Semno-pithèque* F. Cuv., Hist. Nat. Mamm., III, 1821, livr. xxx, pl. text. (nec Latin.)  
*Semnopithecus* F. Cuv., Dents. Mamm., 1825, p. 247, pl. 4.  
*Trachypithecus* Reichenb., Vollst. Naturg. Affen, 1862, p. 89, pls. xv, xvi, figs. 198-225.  
*Corypithecus* Trouess., Rev. Mag. Zool., 3me Sér., VII, 1879, p. 53.  
*Lophopithecus* Trouess., Rev. Mag. Zool., 3me Sér., VII, 1879, p. 53.  
*Presbypithecus* Trouess., Rev. Mag. Zool., 3me Sér., VII, 1879, pp. 52, 56.

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\* There is no question as to the priority of *Presbytis* over *Semnopithecus*, for although Cuvier called it *Semnopithecus* in 1821, it was not Latinized until 1825, thus giving *Presbytis* four years' priority.

Subgenus A. *Lophopithecus*.1004. *Presbytis femoralis* (Horsfield).

*Simia maura* Raffles, Trans. Linn. Soc., XIII, 1821, p. 247. (nec Schreber.)

*Semnopithecus femoralis* Horsf., Life Raffles, 1830, Append., p. 644.

*Semnopithecus chrysomelas* Mull. & Schleg., Tijds. N. Geschied., v., 1838, p. 138, pl.

*Semnopithecus sumatranus* Mull. & Schleg., Verhandl., 1839-44, pp. 6, 73, pl. 10 bis, fig. 1.

## THE LOTONG.

1. Adult — P. "Malacca." Ward's Nat. Scien. Establ., Rochester, N. Y.

a. *Presbytis femoralis cruciger* (Thomas).

*Semnopithecus cruciger* Thos., Ann. Mag. Nat. Hist., x, 1892, p. 475. *Id.* Proc. Zool. Soc., 1893, p. 3.

## THOMAS'S LOTONG.

1. Adult — P. Batang Lupar, Sarawak, Borneo. A. Everett.

1005. *Presbytis sabanus* (Thomas).

*Semnopithecus sabanus* Thos., Ann. Mag. Nat. Hist., xii, 1893, p. 230, pl. vii.

## PAITAN LOTONG

1. Adult — P. North Borneo. E. Gerrard & Sons.

1006. *Presbytis hosii* (Thomas).

*Semnopithecus hosei* Thos., Proc. Zool. Soc., 1889, p. 159, pl. xvi.

## HOSE'S MONKEY.

1. Adult ♀ P. Kina Balu, N. W. Borneo. A. Everett.

Subgenus B. *Trachypithecus*.1007. *Presbytis cristatus* (Raffles).

*Simia cristatus* Raffles, Trans. Linn. Soc., XIII, 1821, p. 245.

*Semnopithecus pruinus* Desm., Mamm., 1820, Suppl., p. 333.

*Semnopithecus cristatus* Horsf., Life Raffles, 1830, App., p. 642.

*Semnopithecus rutledgii* Anders., Zool. Yunnan, 1878, p. 39.

## CHINGKAU.

1. Adult ♀ P. Borneo. Menage Scientific Exp. Bourns & Worcester.

2. Adult — P. Borneo. Menage Scientific Exp. Bourns & Worcester.

3. Adult — P. Telok Betong, South Sumatra. W. Danne.

Subgenus C. *Presbypithecus*.**1008. *Presbytis johni* (Fischer).***Simia johnei* Fisch., Syn. Mamm., 1, 1829, p. 25.*Semnopithecus cucullatus* I. Geoff., Voy. Bélang., 1834, pp. 38, 72, pl. 1.*Presbytis cephalopterus* Blyth, Jour. Asiat. Soc. Beng., XIII, 1844, p. 469.*Semnopithecus jubatus* Wagn., Schreb. Säugth., Suppl., 1, 1840, p. 305.

## JOHN'S MONKEY.

1. Adult — P. "India." Ward's Nat. Scien. Establ., Rochester, N. Y.

**1009. *Presbytis fusco-murina* Elliot.***Presbytis fusco-murina* Elliot, Proc. Biol. Soc. Wash., XIX, 1906, p. 49.

## MOUSE-COLORED MONKEY.

1. Adult — Type. P. Telok Betong, South Sumatra. W. Danne.

Subgenus D. *Semnopithecus*.**1010. *Presbytis entellus* (Dufresne).***Simia entellus* Dufresne, Bull. Soc. Philom., 1797, p. 49.*Semnopithecus entellus* Blyth, Jour. Asiat. Soc. Beng., XIII, 1844, p. 470.*Semnopithecus anchises* Elliot, in Blyth, Jour. Asiat. Soc. Beng., XIII, 1844, p. 470.

## THE LANGUR.

1. Adult — P. "India." Ward's Nat. Scien. Establ., Rochester, N. Y.

Genus 335. **Colobus.****Colobus** Illig., Prodr. Syst. Mamm. et Av., 1811, p. 69. Type *Simia polycomos* Schreber.*Colobolus* Gray, Lond. Med. Repos., xv, 1821, p. 298.*Guereza* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats Brit. Mus., 1870, pp. 5, 19.*Tropicobolus* Rocherb., Faun. Sénégalamb., Suppl. Vert., 1st fasc., 1886-87, p. 102, pls. II, XXVIII.*Piliocolobus* Rocherb., Faun. Sénégalamb., Suppl. Vert., 1st fasc., 1886-87, p. 105, pls. III-VI.

*Stachycolobus* Rocherb., Faun. Sénégal., Suppl. Vert., 1st fasc.,  
1886-87, p. 114, pl. VII.

*Pterycolobus* Rocherb., Faun. Sénégal., Suppl. Vert., 1st fasc.,  
1886-87, p. 125, pl. X.

*Pterygocolobus* Trouess., Cat. Mamm. Viv. et Foss., 1, 1897, p. 95.

Subgenus A. *Guereza*.

1011. *Colobus guereza* Rüppell.

*Colobus guereza* Rüpp., Neue Wirbelth., Säugth., 1835, p. 1, pl. 1.

*Guereza ruppellii* Gray, Cat. Monkeys, Lemurs & Fruit-eating Bats  
Brit. Mus., 1870, p. 19.



FIG XC. COLOBUS GUEREZA. THE GUEREZA.

THE GUEREZA.

\* 1. Adult ♂ P. Abyssinia. P. H. G. Powell-Cotton.

\* 2. Juv. ♂ P. Abyssinia. P. H. G. Powell-Cotton.

† The specimens procured by Mr. Powell-Cotton have the tail for more than basal half dark gray, and but little white on the buttocks. One is a fully adult male, the other young. Although appearing so different from typical *guereza* in these respects, for lack of material for comparison I leave them under that name.



3. Adult — P. Abyssinia. Ward's Nat. Scien. Establ., Rochester, N. Y.

**1012. *Colobus angolensis* Sclater.**

*Colobus angolensis* Sclat., Proc. Zool. Soc., 1860, p. 245.

**ANGOLA COLOBUS.**

1. Adult — P. Angola, W. Africa. E. Gerrard & Sons.

**Family VII. Hylobatidæ. Gibbons.**

**Genus 336. Hylobates.**

**Hylobates** Illig., Prodr. Syst. Mamm. et Av., 1811, p. 67. Type  
*Simia lar* = *Homo lar* Linnæus.

*Laratus* Gray, Lond. Med. Repos., xv, 1821, p. 297.

*Cheiron* Burnett, Quart. Jour. Scien. Lit. & Art, xxvi, 1828, p. 307.

*Symphalangus* Glog., Hand-u. Hilfsb. Naturg., 1, 1841, pp. xxvii,  
34.

*Syndactylus* Boit., Jard. Plant. Paris, 1842, p. 55.

*Siamanga* Gray, List Spec. Mamm. Brit. Mus., 1843, pp. xvii, 1.

**Subgenus A. Hylobates.**

**1013. *Hylobates agilis* E. Geoffroy & F. Cuvier.**

*Hylobates agilis* E. Geoff. & F. Cuv., Hist. Nat. Mamm., 1850,  
p. 874.

**SUMATRAN WOU-WOU.**

1. Adult — P. Telok Betong, South Sumatra. W. Danne.

**1014. *Hylobates leuciscus* (Schreber).**

*Simia leuciscus* Schreb., Säugth., 1, 1775, pl. cxi B.

*Hylobates leuciscus* Kuhl, Beit. Zool., 1820, p. 6.

*Hylobates mulleri* Martin, Intr. Nat. Hist. Quad., 1841, p. 144.

*Hylobates concolor* Müll., Verhandl. Zoogd. Ind. Arch., 1841, p. 48.  
(nec Harlan.)

**THE WOU-WOU.**

1. Adult — P. Java. Ward's Nat. Scien. Establ., Rochester,  
N. Y.  
2-3. Adult ♀ P. Kina Balu, N. Borneo. A. Everett.  
4. Adult ♀ P. Sarawak, N. Borneo. A. Everett.  
5. Adult — P. Borneo. Menage Scientific Exped. Bourns &  
Worcester.



FIG. XCI. HYLOBATES LAR. GIBSON.

Subgenus B. *Siamanga*.

1015. *Hylobates syndactylus* (Desmarest).

*Pithecius syndactylus* Desm., Mamm., 1820, p. 531.

*Simia syndactyla* Raffles, Trans. Linn. Soc., XIII, 1822, p. 241.

*Siamanga syndactyla* Gray, Cat. Monkeys, Lemurs & Fruit-eating  
Bats Brit. Mus., 1870, p. 9.

THE SIAMANG.

1 Adult — P. Sumatra. Ward's Nat. Scien. Establish. Rochester,  
N. Y.

Family VIII. **Simiidae.**Genus 337. **Pongo. Orang-utan.**

**Pongo** Lacépède., Tabl. Mamm., 1799, p. 4. Type *Pongo borneo*  
Lacépède=*Simia pygmæus* Linnæus.

*Pithecus* G. Cuv., Tabl. Élément. Hist. Nat. Anim., 1798, p. 95.

*Id.* Leçons Anat. Comp., 1800, tab. I. (nec Geoff. & Cuv., 1795.)

*Lophotus* Fish., Zoogn., II, 1813, pp. IX, 547.

*Faunus* Oken, Lehrb. Naturg., 3ter Theil, Zool., 2te Abth., 1816,  
pp. XI, 1227. (nec Montfort, 1810, Mollusca.)

*Macrobates* Billb., Syn. Faun. Scandin., I, Mamm., 1828, Con-  
spectus A.

*a. Pongo pygmæus pygmæus* (Linnæus).

*Simia pygmæus* Linn., Amœnit. Acad., 1763, p. 69.

*Simia satyrus* Linn., Syst. Nat., I, 1766, p. 34. (nec 1758, p. 25.)

*Simia agrias* Schreb., Säugth., I, 1774, Taf. 2c. (dimorphic.)

*Pongo pygmæus pygmæus* Roths., Proc. Zool. Soc., II, 1904, p.  
436. •

**ORANG-UTAN.**

1. Adult ♂ Pres. Borneo. Martin A. Ryerson. Bourns & Worcester.
2. Adult ♀ Pres. Borneo. Martin A. Ryerson. Bourns & Worcester.
3. Juv. ♂ Pres. Borneo. Martin A. Ryerson. Bourns & Worcester.
4. Juv. ♀ Pres. Borneo. Martin A. Ryerson. Bourns & Worcester.
- 5-6. Juv. — Pres. Borneo. Martin A. Ryerson. Bourns & Worcester.

Genus 338. **Simia. Chimpanzees.**

**Simia** Linn., Syst. Nat., I, 1758, p. 25. Type *Simia satyrus* Linnæus.

*Troglodytes* E. Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812,  
p. 87. (nec Vieillot, 1806, Ornith.)

*Pan* Oken, Lehrb. Naturg., 3ter Theil, Zool., 2te Abth., 1816, pp.  
XI, 1230.

*Mimetes* Leach, Thomson's Ann. Philos., XVI, 1820, p. 104.

*Theranthropus* Brookes, Cat. Anat. Zool. Mus. J. Brookes, Lond.,  
1828, p. 28.

*Anthropopithecus* Blainv., Ann. France et Étrang. d'Anat. et Physiol., Paris, II, 1838, p. 380.

*Hylanthropus* Glog., Hand-u. Hilfsb. Naturg., I, 1841, pp. XXVII, 34.

*Pseudanthropus* Reichenb., Fortsetz. vollst. Naturg., 1860. *Id.* Vollst. Naturg. Affen, 1862, pp. 191-194, Taf. XXXIV, XXXVII, figs. 493-494, XXXVIII, fig. 501.

*Engeco* Haeckel, Gen. Morph. Organism., II, 1866, pp. CL, footnote. CLX.



FIG. XCII. SIMIA P. CHIMPANSE. CHIMPANZEE.



*Pongo* Haeckel, Gen. Morph. Organism., II, 1866, p. CL. (nec Lacép., 1799.)

**1016. *Simia satyrus* Linnæus.**

*Simia satyrus* Linn., Syst. Nat., I, 1758, p. 25. (nec 1766, p. 34.)

Roths., Proc. Zool. Soc., II, 1904, p. 422.

*Simia troglodytes* Gmel., Syst. Nat., 1788, p. 26.

*Troglodytes niger* Geoff., Ann. Mus. Hist. Nat. Paris, XIX, 1812, p. 87.

*Troglodytes tschego* Duvern., Arch. Mus. Hist. Nat. Paris, VIII, 1855, p. 8.

*Troglodytes calvus* Du Chaillu, Proc. Bost. Soc. Nat. Hist., VII, 1861, p. 296.

**THE TSCHEGO.**

1. Adult — P. Congo, West Africa. Roland Ward & Co.

**1017. *Simia pygmæus* Schreber.**

*Simia pygmæus* Schreb., Säugth., III, 1777, p. 432, fig. 113. Roths., Proc. Zool. Soc., II, 1904, p. 430.

**SMALL CHIMPANZEE.**

1. Adult ♂ P. Fernan Vaz, Gaboon, West Africa. Deyrolle Fils.

**a. *Simia pygmæus chimpanse* (Mayer).**

*Satyrus chimpanse* Mayer, Arch. Naturg., XXII, 1856, p. 282.

*Simia chimpanse* Matsch., Sitzungsab. Ges. Naturf. Freunde Berlin, 1900, pp. 77-85; 1904, pp. 55-69.

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**CHIMPANZEE.**

1. Juv. ♀ Pres. West Africa. Ringling Bros.



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